LEVEL II

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DAVID W. TAYLOR NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER

Bethesda, Maryland 20084

CMLD-81-08

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COMPUTER CENTER

CDC LIBRARIES/PROCFIL (PROCEDURES)

by

David V. Sommer

DTIC
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Computation, Mathematics and Logistics Department
Departmental Report

February 1981

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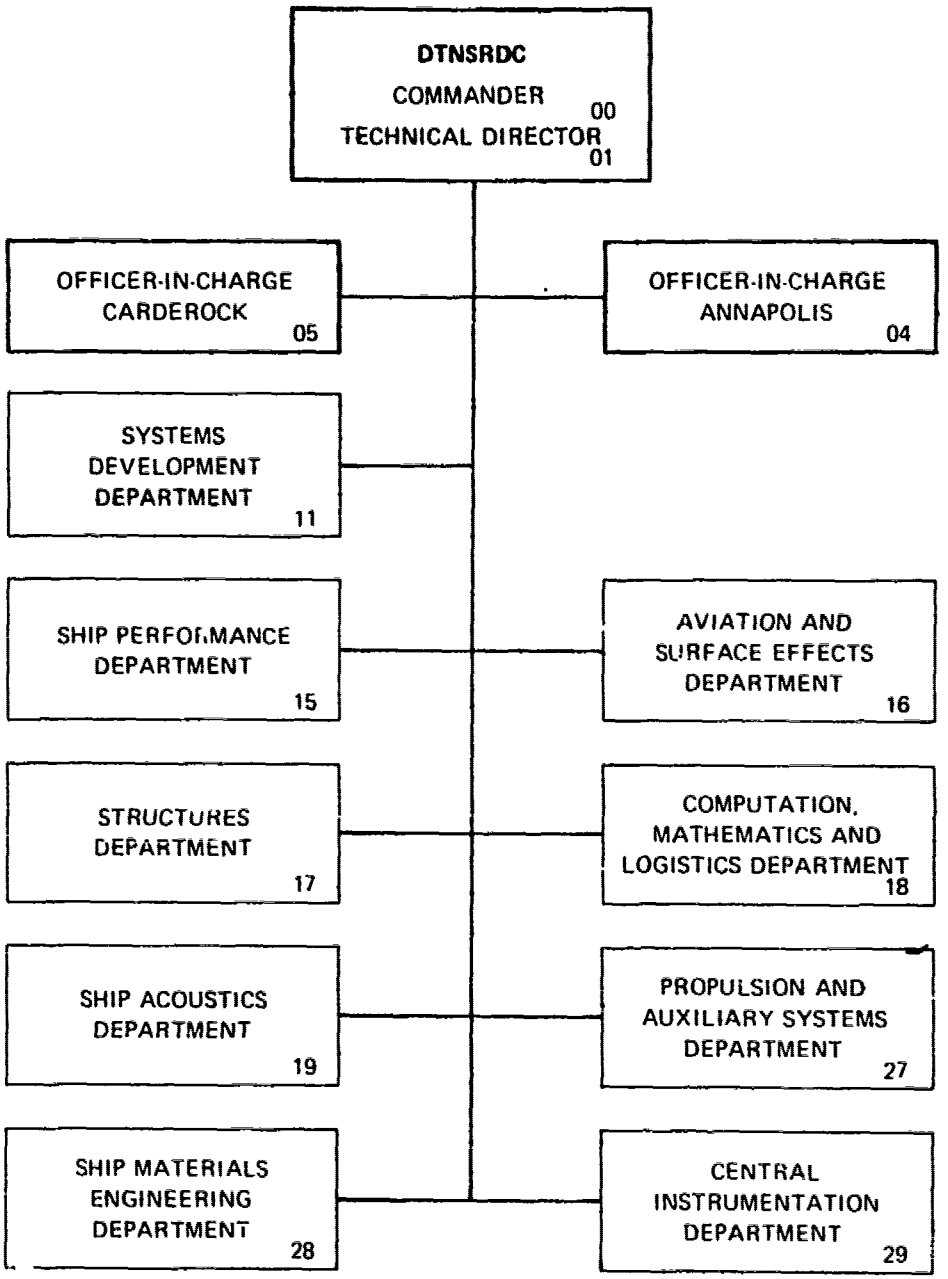

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Computer Center CDC Libraries/PROCFIL (Procedures), CLIB/P, is a reference manual which described all of the catalogued procedures (sets of control cards to accomplish a task) in library "PROCFIL" on the CDC 6000/Cyber 74 computers at DTNSRDC. These procedures include document/source program/procedure file maintenance, program compilation/loading/execution, permanent file audit/rename, special copy functions. CLIB/P lists the procedures by functional category and alphabetically with a descriptive title. All machine-readable documents detailing the use of these procedures are included.

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DAVID W. TAYLOR
NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER
BETHESDA, MARYLAND 20084

COMPUTER CENTER
CDC LIBRARIES / PROCFIL
(PROCEDURES)

BY
DAVID V SOMMER

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CODE 1892

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2 PROGRAM DOCUMENTATION
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* - A LISTING OF THE DOCUMENTS IS NOT INCLUDED IN THIS TABLE OF CONTENTS (SEE PAGE 1-7). AS NEW ROUTINES ARE DEVELOPED, THEY WILL BE INSERTED ALPHABETICALLY INTO THIS DOCUMENT AND MAY BE PRINTED ON THE COMPUTER.

***** INTRODUCTION *****

THE COMPUTER CENTER MAKES AVAILABLE ON THE CDC COMPUTERS, IN ADDITION TO THE NOS/BE OPERATING SYSTEM, A WIDE VARIETY OF BOTH SCIENTIFIC AND UTILITY PROGRAMS, SUBPROGRAMS AND CATALOGUED PROCEDURES. MOST OF THE ROUTINES ARE MAINTAINED IN LIBRARIES ON PERMANENT FILES AND MAY BE INVOKED BY THE APPROPRIATE (LOADER) CONTROL CARDS. A FEW PROGRAMS ARE AVAILABLE AS INDEPENDENT PERMANENT FILES.

THE CLIB-SERIES OF MANUALS CONSISTS OF THE FOLLOWING, WHICH DESCRIBE THE CONTENTS OF THE VARIOUS CDC 6000 LIBRARIES MAINTAINED BY THE COMPUTER CENTER:

CLIB - COMPUTER CENTER CDC LIBRARIES	CMLD-81-06
CLIB/N - COMPUTER CENTER CDC LIBRARIES/NSRDC (SUBPROGRAMS)	CMLD-81-07
CLIB/P - COMPUTER CENTER CDC LIBRARIES/PROCFIL (PROCEDURES)	CMLD-81-08
CLIB/U - COMPUTER CENTER CDC LIBRARIES/UTILITY (PROGRAMS)	CMLD-81-09
CLIB/M - COMPUTER CENTER CDC LIBRARIES/MNSRDC (PROGRAMS)	

THIS MANUAL, CLIB/P, IS A REFERENCE MANUAL WHICH DESCRIBES MOST OF CATALOGUED PROCEDURES IN LIBRARY 'PROCFIL'.

*** HOW TO USE THIS MANUAL ***

THE PROCEDURES ARE CLASSIFIED IN ONE OR MORE FUNCTIONAL CATEGORIES (SEE PAGE 1-2 FOR A LIST OF CATEGORIES). THEY ARE LISTED, BEGINNING ON PAGE 1-5, UNDER THE VARIOUS CATEGORIES. THE INDIVIDUAL PROCEDURES ARE LISTED, WITH DESCRIPTIVE TITLE, BEGINNING ON PAGE 1-7. CHAPTER 2 CONTAINS ALL CURRENTLY AVAILABLE MACHINE-READABLE DOCUMENTS DESCRIBING THE USE OF PROCEDURES IN LIBRARY 'PROCFIL'.

*** LIBRARY PROCFIL ***

A CATALOGUED PROCEDURE IS A SET OF CONTROL CARDS WHICH ACCOMPLISH A TASK. LIBRARY 'PROCFIL' CONTAINS MANY DTNSRDC WRITTEN AND/OR SUPPORTED PROCEDURES.

*** EXECUTING A PRODECURE ***

MOST OF THE PROCEDURES MAY BE EXECUTED BY:

BEGIN.<PROCNAME>,.<PARAMETERS>.

THE INDIVIDUAL DOCUMENTS DESCRIBE THE <PARAMETERS>, IF ANY, AND THE METHOD OF EXECUTION.

*** FUNCTIONAL CATEGORIES ***

THE FOLLOWING FUNCTIONAL CATEGORIES ARE USED AT DTNSRDC. THOSE CATEGORIES PRECEDED BY AN ASTERISK (*) ARE LOCAL DTNSRDC CATEGORIES. THE OTHER ARE FROM THE VIM (CDC USERS GROUP) LIST.

A0 ARITHMETIC ROUTINES
A1 REAL NUMBERS
A2 COMPLEX NUMBERS
A3 DECIMAL
A4 I/O ROUTINES

B0 ELEMENTARY FUNCTIONS
B1 TRIGONOMETRIC
B2 HYPERBOLIC
B3 EXPONENTIAL AND LOGARITHMIC
B4 ROOTS AND POWERS

C0 POLYNOMIALS AND SPECIAL FUNCTIONS
C1 EVALUATION OF POLYNOMIALS
C2 ROOTS OF POLYNOMIALS
C3 EVALUATION OF SPECIAL FUNCTIONS (NON-STATISTICAL)
C4 SIMULTANEOUS NON-LINEAR ALGEBRAIC EQUATIONS
C5 SIMULTANEOUS TRANSCENDENTAL EQUATIONS
* C6 ROOTS OF FUNCTIONS

D0 OPERATIONS ON FUNCTIONS AND SOLUTIONS OF DIFFERENTIAL EQUATIONS
D1 NUMERICAL INTEGRATION
D2 NUMERICAL SOLUTIONS OF ORDINARY DIFFERENTIAL EQUATIONS
D3 NUMERICAL SOLUTIONS OF PARTIAL DIFFERENTIAL EQUATIONS
D4 NUMERICAL DIFFERENTIATION

E0 INTERPOLATION AND APPROXIMATIONS
E1 TABLE LOOK-UP AND INTERPOLATION
E2 CURVE FITTING
E3 SMOOTHING
E4 MINIMIZING OR MAXIMIZING A FUNCTION

F0 OPERATIONS ON MATRICES, VECTORS & SIMULTANEOUS LINEAR EQUATIONS
F1 VECTOR AND MATRIX OPERATIONS
F2 EIGENVALUES AND EIGENVECTORS
F3 DETERMINANTS
F4 SIMULTANEOUS LINEAR EQUATIONS

G0 STATISTICAL ANALYSIS AND PROBABILITY
G1 DATA REDUCTION (COMMON STATISTICAL PARAMETERS)
G2 CORRELATION AND REGRESSION ANALYSIS
G3 SEQUENTIAL ANALYSIS
G4 ANALYSIS OF VARIANCE
G5 TIME SERIES
G6 SPECIAL FUNCTIONS (INCLUDES RANDOM NUMBERS AND PDF'S)
* G7 MULTIVARIATE ANALYSIS AND SCALE STATISTICS
* G8 NON-PARAMETRIC METHODS AND STATISTICAL TESTS
* G9 STATISTICAL INFERENCE

H0 OPERATIONS RESEARCH TECHNIQUES, SIMULATION & MANAGEMENT SCIENCE
H1 LINEAR PROGRAMMING
H2 NON-LINEAR PROGRAMMING
H3 TRANSPORTATION AND NETWORK CODES
H4 SIMULATION MODELING
H5 SIMULATION MODELS
H6 CRITICAL PATH PROGRAMS
H8 AUXILIARY PROGRAMS
H9 COMBINED

I0 INPUT
I1 BINARY
I2 OCTAL
I3 DECIMAL
I4 BCD (HOLLERITH)
I9 COMPOSITE

J0 OUTPUT
J1 BINARY
J2 OCTAL
J3 DECIMAL
J4 BCD (HOLLERITH)
J5 PLOTTING
J7 ANALOG
J9 COMPOSITE

K0 INTERNAL INFORMATION TRANSFER
K1 EXTERNAL-TO-EXTERNAL
K2 INTERNAL-TO-INTERNAL (RELOCATION)
K3 DISK
K4 TAPE
K5 DIRECT DATA DEVICES

L0 EXECUTIVE ROUTINES
L1 ASSEMBLY
L2 COMPILING
L3 MONITORING
L4 PREPROCESSING
L5 DISASSEMBLY AND DERELATIVIZING
L6 RELATIVIZING
L7 COMPUTER LANGUAGE TRANSLATORS

M0 DATA HANDLING
M1 SORTING
M2 CONVERSION AND/OR SCALING
M3 MERGING
M4 CHARACTER MANIPULATION
M5 SEARCHING, SEEKING, LOCATING
M6 REPORT GENERATORS
M9 COMPOSITE

N0 DEBUGGING
N1 TRACING AND TRAPPING
N2 DUMPING
N3 MEMORY VERIFICATION AND SEARCHING
N4 BREAKPOINT PRINTING

```
  00  SIMULATION OF COMPUTERS AND DATA PROCESSORS (INTERPRETERS)
  01  OFF-LINE EQUIPMENT (LISTERS, REPRODUCERS, ETC.)
  03  COMPUTERS
  04  PSEUDO-COMPUTERS
  05  SOFTWARE SIMULATION OF PERIPHERALS
  09  COMPOSITE

  P0  DIAGNOSTICS (HARDWARE MALFUNCTION)

  Q0  SERVICE OR HOUSEKEEPING, PROGRAMMING AIDS
  Q1  CLEAR/RESET
  Q2  CHECKSUM ACCUMULATION AND CORRECTION
  Q3  REWIND, TAPE MARK, LOAD CARDS, LOAD TAPE PROGRAMS, ETC.
  Q4  INTERNAL HOUSEKEEPING, SAVE, RESTORE, ETC.
  Q5  REPORT GENERATOR SUBROUTINES
  Q6  PROGRAM DOCUMENTATION: FLOW CHARTS, DOCUMENT, STANDARDIZATION
  Q7  PROGRAM LIBRARY UTILITIES

  R0  LOGIC AND SYMBOLIC
  R1  FORMAL LOGIC
  R2  SYMBOL MANIPULATION
  R3  LIST AND STRING PROCESSING
  R4  TEXT EDITING

  S0  INFORMATION RETRIEVAL

  T0  APPLICATIONS AND APPLICATION-ORIENTED PROGRAMS
  T1  PHYSICS (INCLUDING NUCLEAR)
  T2  CHEMISTRY
  T3  OTHER PHYSICAL SCIENCES (GEOLOGY, ASTRONOMY, ETC.)
  T4  ENGINEERING
  T5  BUSINESS DATA PROCESSING
  T6  MANUFACTURING (NON-DATA) PROCESSING AND PROCESS CONTROL
  T7  MATHEMATICS AND APPLIED MATHEMATICS
  T8  SOCIAL AND BEHAVIORAL SCIENCES AND PSYCHOLOGY
  T9  BIOLOGICAL SCIENCES
  T10 REGIONAL SCIENCES (GEOGRAPHY, URBAN PLANNING)
  T11 COMPUTER ASSISTED INSTRUCTION

  U0  LINGUISTICS AND LANGUAGES

  V0  GENERAL PURPOSE UTILITY SUBROUTINES
  V1  RANDOM NUMBER GENERATORS
  V2  COMBINATORIAL GENERATORS: PERMUTATIONS, COMBINATIONS & SUBSETS
* V3  STANDARD AND SPECIAL PROBLEMS

  X0  DATA REDUCTION
  X1  RE-FORMATTING, DECOMMUTATION, ERROR DIAGNOSIS
  X2  EDITING
  X3  CALIBRATION
  X4  EVALUATION
  X5  ANALYSIS (TIME-SERIES ANALYSIS)
  X6  SIMULATION (GENERATE TEST DATA FOR DATA REDUCTION SYSTEM)

  Y0  INSTALLATION MODIFICATION
  Y1  INSTALLATION MODIFICATION LIBRARY
  Y2  NEWPL TAPE OF INSTALLATION MODIFICATIONS

  Z0  ALL OTHERS
```

*** LIST OF PROCEDURES BY CATEGORY ***

THE PUBLIC-ACCESS PROCEDURES ARE LISTED BELOW UNDER THEIR FUNCTIONAL CATEGORIES. AN ALPHABETICAL LIST, WITH A BRIEF DESCRIPTION OF EACH PROCEDURE BEGINS ON PAGE 1-7.

J1 BINARY
- CV029

J4 BCD (HOLLERITH)
- BANNERS
- COMQ
- LINE6
- LINE8
- PM

J5 PLOTTING
- CALC3D

K1 EXTERNAL-TO-EXTERNAL
- COPYS
- PFTRAN1
- RECADD1
- RECDEL1
- RECGET1
- RECREP1

K3 DISK
- COPYLIB
- PROS2R
- SELDUMP
- TRANPAK
- UPDADD
- UPDDELE
- UPDGET
- UPDGETS
- UPDGETT
- UPDREPL

K4 TAPE
- B7700S
- B7700U
- COPYBLK
- SELLOAD

L0 EXECUTIVE ROUTINES
- ANYLIB
- ANYPRO
- ANYPROS
- BIGLOAD
- DISPOST
- LIBPRO
- LIBPROA
- LIBSET1
- LIBSET2
- MNSRDC
- MYPRO
- MYPROS
- NOGO
- PROGRAM
- SEGLD
- S2K260
- UTILITY

L2 COMPILING
- RUNBAS
- RUNFTN
- RUNMNF
- RUNPAS
- RUNSEQ
- RUNTS

M1 SORTING
- AUDIT
- SORT
- SORTCZ

M2 CONVERSION AND/OR SCALING
- BR2CCL
- CV029

O1 OFF-LINE EQUIPMENT (LISTERS, REPRODUCERS, ETC.)
- CV029
- DOCDATE
- DOCDOC
- LIST
- MANUAL
- PROALL
- PRODOC
- PROLIST
- RECDOC
- TIDBITS
- UPDDOC
- UPDLIST

Q0 SERVICE OR HOUSEKEEPING, PROGRAMMING AIDS

AUDIT	COMQ	NORERUN
BANNERS	GETPROD	SEND
BDT	MFX	WHATLIB

Q3 FILE MANIPULATION

ANYLIB	LIBPROA	NOGO
ANYPRO	LIBSET1	PROGRAM
ANYPROS	LIBSET2	SEGLD
BIGLOAD	MNSRDC	S2K260
DISPOST	MYPRO	UPDLIST
LIBPRO	MYPROS	UTILITY

Q4 INTERNAL HOUSEKEEPING. SAVE. RESTORE. ETC.

ADDEXT	PFRSTOR	PURGEN
PAC	PHC	RENAMAC
PAHC	PLC	SELDUMP
PALC	PURGALL	SELLOAD

Q6 PROGRAM DOCUMENTATION: FLOW CHARTS. DOCUMENT STANDARDIZATION

DOCADD	DOCGET	DOCTAPE
DOCDELE	DOCLIST	LGOTREE
DOCFILE	DOCREPL	PGMTAPE

Q7 PROGRAM LIBRARY UTILITIES

COPYLIB	PRONAM	UPDGET
PROADD	PROREPL	UPDGETS
PRODELE	PROS2R	UPDGETT
PROGET	UPDADD	UPDREPL
PROHDR	UPDDELE	

S0 INFORMATION RETRIEVAL

AUDIT	GRIPE
CCNOTE	VENUS

*** DESCRIPTIVE TITLES ***

THE PUBLIC-ACCESS PROCEDURES ARE LISTED ALPHABETICALLY BELOW.

ADDEXT	MODIFY PRIVATE PACK DUM FILE FOR LEVEL 508 DUMPF/LOADPF
ANYLIB	EXECUTE A PROGRAM ON ANY EDITLIB USER LIBRARY
ANYPRO	EXECUTE A PROCEDURE ON ANY CATALOGUED RANDOM PROCEDURE FILE
ANYPROS	EXECUTE A PROCEDURE ON ANY CATALOGUED SEQUENTIAL PROCEDURE FILE
AUDIT	SORTED USER AUDIT
BANNERS	PRINT A PAGE WITH 1 TO 8 BANNERS
BDT	PRINT A BANNER PAGE WITH DATE AND TIME
BIGLOAD	CREATE AN ABSOLUTE FILE WHICH WILL ALLOW SOME LARGE PROGRAMS TO LOAD IN LESS CORE THAN NORMALLY NEEDED
BR2CCL	CONVERT SEQUENTIAL (UNIVERSITY OF WASHINGTON) BEGIN/REVERT PROCEDURE FILE TO SEQUENTIAL (CDC-SUPPORTED) CYBER CONTROL LANGUAGE FILE AND, OPTIONALLY, CATALOG THE CCL FILE
B7700S	PREPARE 9-TRACK EBCDIC TAPE TO MOVE A SINGLE CARD-IMAGE PERMANENT FILE FROM THE CDC 6000 TO THE BURROUGHS B7700
B7700U	PREPARE 9-TRACK EBCDIC TAPE TO MOVE A SINGLE DECK OR ALL DECKS IN AN UPDATE LIBRARY FROM THE CDC 6000 TO THE BURROUGHS B7700
CALC3D	THREE-D PROCEDURE FOR CALCOMP PLOTTERS
CCNOTE	PRINT A COMPUTER CENTER NOTE OR THE CCN INDEX
COMQ	PREPARE AND ROUTE A FILE TO THE MICROFICHE QUEUE
COPYBLK	REBLOCK STRANGER TAPES TO SCOPE STANDARD FILES (BOTH UNBLOCKED CARD AND PRINT LINE IMAGE TAPES AND BLOCKED STRANGER TAPES)
COPYLIB	CONDENSE (AND SORT) AN EDITLIB USER LIBRARY PRESERVING AL, FL, FLO VALUES. BINDEX AND LISTBIN LISTS ARE PROVIDED.
COPYS	ATTACH, EXECUTE AND RETURN THE RIQSCOPYS PROGRAM
CV029	CONVERT TO 029 PUNCH CODE
DISPOST	INVOKE THE TEKTRONIX POSTPROCESSOR
DOCADD	ADD ONE DOCUMENT TO A DOCUMENTATION FILE
DOCDATE	LIST DOCUMENT NAMES (ON *DECK CARDS) TOGETHER WITH THE DOCUMENT DATE AND PAGE NUMBERS (FROM BOTTOM LINE OF EACH PAGE)

DOCDELE	DELETE ONE DOCUMENT FROM A DOCUMENTATION FILE
DOCDOC	LIST DOCUMENTATION FOR PROCEDURES DOCADD, DOCDATE, DOCDELE, DOCDOC, DOCFILE, DOCGET, DOCLIST, DOCREPL
DOCFILE	ATTACH A DOCUMENTATION FILE
DOCGET	GET (EXTRACT) SPECIFIED DOCUMENT FROM A DOCUMENTATION FILE
DOCLIST	LIST DOCUMENT NAMES (ON *DECK) CARDS IN A DOCUMENTATION FILE
DOCREPL	REPLACE ONE DOCUMENT IN A DOCUMENTATION FILE
DOCTAPE	EXTRACT (PRINT) ONE OR ALL DOCUMENTS FROM A DOCUMENT FILE ON TAPE
GETPROD	GET PRODUCTS FILE(S) FOR NOS/BE LEVELS 461, 439, 434, 420, 414, 410, 406, 401, 380
GRIPE	ALLOW USER TO MAKE GRIPES OR SUGGESTIONS DIRECTLY TO THE COMPUTER .
LGOTREE	GENERATE CROSS-REFERENCE LISTS AND TREE STRUCTURE FROM BINARY RELOCATABLE OBJECT FILE
LIBPRO	EXECUTE A PROCEDURE ON LIBRARY 'PROCFIL' CATALOGED UNDER ANY ID
LIBPROA	EXECUTE A PROCEDURE ON ANY CATALOGUED PROCEDURE LIBRARY
LIBSET1	CREATE SIMPLE ABSOLUTE USING ONE EDITLIB LIBRARY
LIBSET2	CREATE SIMPLE ABSOLUTE USING TWO EDITLIB LIBRARIES
LINE6	SET PRINT FILE TO 6 LINES PER INCH
LINE8	SET PRINT FILE TO 8 LINES PER INCH
LIST	LIST A PERMANENT FILE
MANUAL	PRINT ONE COPY OF A MANUAL OR ITS REVISION PAGES
MFX	TELL INTERACTIVE USER WHICH MAINFRAME HE IS USING
MNSRDC	EXECUTE A PROGRAM ON EDITLIB USER LIBRARY 'MNSRDC'
MYPRO	EXECUTE A PROCEDURE ON SEQUENTIAL FILE 'PROCFIL' CATALOGED UNDER ANY ID
MYPROS	EXECUTE A PROCEDURE ON SEQUENTIAL FILE 'PROCFILS' CATALOGED UNDER ANY ID
NOGO	CREATE SIMPLE ABSOLUTE FROM RELOCATABLE
NORERUN	INSURE THAT A BATCH JOB CANNOT BE RERUN BY OPERATOR TYPE-IN

PAC	PURGE ALL CYCLES OF A FILE
PAHC	PURGE ALL HIGH CYCLES OF A FILE WHILE RETAINING THE LOW CYCLE
PALC	PURGE ALL LOW CYCLES OF A FILE WHILE RETAINING THE HIGH CYCLE
PFRSTOR	CREATE A FILE OF DIRECTIVES TO RESTORE PERMANENT FILES
PFTRAN1	INVOKE PFTRANS TO TRANSFER ONE FILE
PGMTAPE	EXTRACT A SOURCE PROGRAM FROM TAPE
PHC	PURGE HIGH CYCLE OF A FILE WHILE RETAINING THE LOW CYCLE
PLC	PURGE LOW CYCLE OF A FILE WHILE RETAINING THE HIGH CYCLE
PM	CREATE CERTAIN PRINT MESSAGE (PM) RECORDS
PROADD	ADD ONE PROCEDURE TO A SEQUENTIAL PROCEDURE FILE
PROALL	LIST PROCEDURE NAMES, PROCEDURE HEADERS AND THE PROCEDURES IN A SEQUENTIAL PROCEDURE FILE (COMBINES PRONAM, PROHDR AND PROLIST)
PRODELE	DELETE ONE PROCEDURE FROM A SEQUENTIAL PROCEDURE FILE
PRODOC	LIST DOCUMENTATION FOR PROCEDURES PROADD, PROALL, PRODELE, PRODOC, PROGET, PROHDR, PROLIST, PRONAM, PROREPL, PROS2R
PROGET	GET (EXTRACT) ONE PROCEDURE FROM A SEQUENTIAL PROCEDURE FILE
PROGRAM	EXECUTE A CATALOGED PROGRAM (NOT IN A LIBRARY)
PROHDR	LIST PROCEDURE HEADERS IN A PROCEDURE FILE
PROLIST	LIST PROCEDURE(S) IN A SEQUENTIAL PROCEDURE FILE
PRONAM	LIST NAMES OF PROCEDURES IN A SEQUENTIAL PROCEDURE FILE
PROREPL	REPLACE ONE PROCEDURE IN A SEQUENTIAL PROCEDURE FILE
PROS2R	CONVERT SEQUENTIAL PROCEDURE FILE TO RANDOM EDITLIB USER LIBRARY
PURGALL	PURGE PERMANENT FILES OF SPECIFIED AC AND ID
PURGEN	GENERATE PROCEDURE 'PUR' TO PURGE SEVERAL FILES WITH COMMON KERNEL

RECADD1	ADD ONE OR MORE LOGICAL RECORDS TO A FILE
RECDEL1	DELETE ONE OR MORE LOGICAL RECORDS FROM A FILE
RECDOC	LIST DOCUMENTATION FOR PROCEDURES RECADD1, RECDEL1, RECDOC, RECGET1, RECREP1
RECGET1	EXTRACT ONE OR MORE LOGICAL RECORDS FROM A FILE
RECREP1	REPLACE ONE OR MORE LOGICAL RECORDS IN A FILE
RENAMAC	RENAME AC FIELD ON PERMANENT FILES
RUNBAS	COMPILE AND EXECUTE BASIC PROGRAM (SIMILAR TO EDITOR RUN,BAS FOR USE OUTSIDE OF EDITOR)
RUNFTN	COMPILE AND EXECUTE FTN PROGRAM (SIMILAR TO EDITOR RUN,FTN FOR USE OUTSIDE OF EDITOR)
RUNMNF	COMPILE AND EXECUTE MNF PROGRAM UNDER INTERCOM
RUNPAS	COMPILE AND EXECUTE PASCAL PROGRAM UNDER INTERCOM
RUNSEQ	COMPILE AND EXECUTE FTN,SEQ PROGRAM
RUNTS	COMPILE AND EXECUTE FTN,TS PROGRAM
SEGLD	CREATE A SEGLOAD ABSOLUTE FILE
SELDUMP	CREATE BACKUP DUMP TAPE OF THE USER PERMANENT FILE OF AN ACCOUNT NUMBER
SELLOAD	RESTORE SELECTED ROUTINES FROM A BACKUP DUMPF TAPE
SEND	SEND MESSAGES TO AN INTERCOM USER WHO IS NOT LOGGED IN; LIST MESSAGES
SORT	INVOKE SORTMRG TO SORT UP TO 5 'DISPLAY' FIELDS USING 'COBOL6' COLLATING SEQUENCE
SORTCZ	INVOKE SORTMRG TO SORT UP TO 5 'DISPLAY' FIELDS IN BT=C,RT=Z RECORDS USING 'COBOL6' COLLATING SEQUENCE ('FILE' CARDS NOT REQUIRED)
S2K260	ATTACH FILES FOR S2000 (VERSION 2.60) NATURAL LANGUAGE, FORTRAN, OR COBOL PRECEDURAL LANGUAGE INTERFACE
TIDBITS	LIST FILE OF TIDBITS (HINTS ON IMPROVED COMPUTER USAGE)
TRANPAK	COPY CONTENTS FROM ONE DEVICE SET TO ANOTHER FOR BACKUP

UPDADD	ADD ONE DECK TO AN UPDATE LIBRARY
UPDDELE	DELETE ONE DECK FROM AN UPDATE LIBRARY
UPDDOC	LIST DOCUMENTATION FOR PROCEDURES UPDADD, UPDDELE, UPDDOC, UPDGET, UPDLIST, UPDREPL
UPDGET	EXTRACT ONE DECK FROM AN UPDATE LIBRARY (UPDATE,C) AND, OPTIONALLY, ADD EDITOR SEQUENCING
UPDGETS	EXTRACT ONE DECK FROM AN UPDATE LIBRARY (UPDATE,S) AND, OPTIONALLY, ADD EDITOR SEQUENCING
UPDGETT	EXTRACT ONE DECK FROM AN UPDATE LIBRARY (UPDATE,T) AND, OPTIONALLY, ADD EDITOR SEQUENCING
UPDLIST	LIST DECK/COMDECK NAMES IN UPDATE LIBRARY WITH COUNT OF RECORDS IN EACH DECK/COMDECK
UPDREPL	REPLACE ONE DECK IN AN UPDATE LIBRARY
UTILITY	EXECUTE A PROGRAM ON EDITLIB USER LIBRARY 'UTILITY'
VENUS	ATTACH AND EXECUTE ONE OF THE VENUS RETRIEVAL PROGRAMS
WHATLIB	LIST LIBRARIES SPECIFIED IN LAST 'LIBRARY' COMMAND

***** PROCEDURE DOCUMENTATION *****

THIS CHAPTER CONTAINS THE DOCUMENTATION FOR ALL PROCEDURES IN PUBLIC-ACCESS PROCEDURE FILE 'PROCFIL'.

*** HOW TO PRINT A DOCUMENT ***

INDIVIDUAL DOCUMENTS MAY BE PRINTED USING:

```
BEGIN,DOCGET,,PROCFIL,,<PROCNAME>,OUTPUT.
```

WHERE <PROCNAME> IS THE DESIRED DOCUMENT.

SEVERAL DOCUMENTS MAY BE PRINTED AT ONE TIME USING:

```
JOBNAME.
CHARGE,,,.
BEGIN,UTILITY,,MANYDOC,PROCFIL.
'    7/8/9      EOR
<PROCNAME1>
<PROCNAME2>
   ...
<PROCNAMEN>
"    6/7/8/9    EOI
```

PROCEDURE 'ADDEXT'

PURPOSE
MODIFY PRIVATE PACK DUM FILE FOR LEVEL 508 DUMPF/LOADPF

FUNCTIONAL CATEGORIES: Q4

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,ADDEXT,,VSN,SN,RD,MD,CN,EX,UTK.

DESCRIPTION OF PARAMETERS
VSN - PACK VOLUME SERIAL NUMBER
SN - PACK SET NAME
RD,MD,CN - CURRENT PASSWORDS (FROM PACK INITIALIZATION)
EX - PASSWORD FOR LEVEL 508 LOADPF USE
UTK - USER TURNKEY (IF PASSWORD IS ON PACK)

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT

MAX FL:

REMARKS
MUST BE RUN ON LEVEL 508 NOS/BE.

THE SYSTEM TURNKEY PASSWORD IS REMOVED FROM DUM FILE; AN EXTEND PASSWORD IS ADDED TO ALLOW LOADPF AT LEVEL 508 TO RUN ON PACKS INITIALIZED AT LEVEL 461 OR BEFORE.

AUTHOR
SHARON E GOOD - DTNSRDC CODE 1892.1

DATE WRITTEN: 09/19/80

DATE(S) REVISED

PROCEDURE 'ANYLIB'

PURPOSE
EXECUTE A PROGRAM ON ANY EDITLIB USER LIBRARY

FUNCTIONAL CATEGORIES: L0 Q3

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN.ANYLIB,,LIB,ID,PROG,PARAMS.

DESCRIPTION OF PARAMETERS
LIB - 1-40 CHARACTER LIBRARY PFN
ID - ID IT IS CATALOGED UNDER.
(DEFAULT: SYSTEM PUBLIC ACCESS ID)
USE 0 (ZERO) IF FILE IS ALREADY ATTACHED
AND IS TO REMAIN ATTACHED AT THE END OF THE
PROCEDURE.
PROG - PROGRAM TO BE EXECUTED
PARAMS - UP TO 13 PARAMETERS FOR 'PROG'

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: DEPENDS ON PROGRAM BEING EXECUTED

REMARKS
NONE

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 1975

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE 'ANYPRO'

PURPOSE
EXECUTE A PROCEDURE ON ANY CATALOGUED PROCEDURE FILE

FUNCTIONAL CATEGORIES: L0 Q3

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,ANYPRO,,PFN,ID,PRO,PARAMS.

DESCRIPTION OF PARAMETERS
PFN - PERMANENT FILE NAME OF PROCEDURE FILE
ID - ID UNDER WHICH PFN IS CATALOGED
PRO - PROCEDURE NAME
PARAMS - UP TO 17 POSITIONAL PARAMETERS FOR PROCEDURE 'PRO'

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: DEPENDS UPON PROCEDURE BEING EXECUTED

REMARKS
SEE 'MYPRO' IF THE PFN IS 'PROCFIL'.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 07/21/76

DATE(S) REVISED

PROCEDURE 'ANYPROS'

PURPOSE
EXECUTE A PROCEDURE ON ANY CATALOGUED SEQUENTIAL PROCEDURE FILE

FUNCTIONAL CATEGORIES: L0 Q3

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,ANYPROS,,PFN,ID,PNAME,PARAMS.

DESCRIPTION OF PARAMETERS
PFN - PERMANENT FILE NAME OF PROCEDURE FILE
ID - ID UNDER WHICH IT IS CATALOGED
PNAME - PROCEDURE NAME
PARAMS - UP TO 17 POSITIONAL PARAMETERS FOR PROCEDURE 'PRO'

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: DEPENDS UPON PROCEDURE BEING EXECUTED

REMARKS
NONE

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 10/29/79

DATE(S) REVISED

```
PROCEDURE 'AUDIT'

PURPOSE
   SORTED (FAST) USER AUDIT

FUNCTIONAL CATEGORIES:  QO  SO  M1

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN,AUDIT,,<KEYWORD-PARAMETERS>.

DESCRIPTION OF PARAMETERS
   ALL 'AUDIT' PARAMETERS ARE SUPPORTED WITH ONLY THREE
   RESTRICTIONS:
      1) MULTIPLE ID'S MUST BE $-DELIMITED AND LIMITED TO 40
         CHARACTERS (UP TO 7 ID'S).  WHEN MULTIPLE ID'S ARE
         GIVEN, A SEPARATE PARAMETER 'IDM=YES' MUST BE
         SPECIFIED.  FOR EXAMPLE,
            BEGIN,AUDIT,,ID=$ID1/ID2/ID3$,<OTHER-PARAMS>,
            IDM=YES.
      2) FOR 'AC', USE AC=AC.
      3) IF PF IS SPECIFIED, IT MUST NOT EXCEED 10 CHARACTERS.
         SORTING IS NOT REALLY NECESSARY FOR PF.  INSTEAD, USE
            AUDIT,PF=<PFN>,....
   IN ADDITION, UP TO 8 FIELDS MAY BE SORTED (KEYWORDS ARE S1=
   THRU S8=):
      (A=ASCENDING, D=DESCENDING)
      1A/1D - PF NAME  - ALL SORTS
      2A/2D - CYCLE    - ALL SORTS
      3A/3D - ID       - AC SORT ONLY
      4A/4D - ACCOUNT  - ID (AI=I)  OR
              SEG      - AC=JJJJJJJJ00
      5A/5D - CREATED  - AC OR ID (AI=I)
      6A/6D - USED-ON  - AC OR ID (AI=I)
      7A/7D - # USES   - AC OR ID (AI=I)
      8A/8D - # PRUS   - AC OR ID (AI=I)
   PL= MAY BE USED TO CHANGE THE 'OUTPUT' LINE LIMIT.

DEFAULT BEGIN STATEMENT
   BEGIN,AUDIT,,ID=<CHG-CRD/LOGIN ID>,LF=OUTPUT,S1=1A,S2=2D.

   WHEN AC=JJJJJJJJ00 IS SPECIFIED:
   BEGIN,AUDIT,,ID=<CHG-CRD/LOGIN ID>,LF=OUTPUT,S1=4A,S2=3A,
   S3=1A,S4=2D.

MAX FL: 52000B

REMARKS
   NONE
```

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 03/22/78

DATE(S) REVISED
03/01/78 - CONVERT TO CCL
05/10/78 - ADD IDM PARAMETER FOR MULTIPLE ID'S
05/26/78 - REWRITE VALIDATION ROUTINE
10/01/78 - PROCEDURE 'AUDIT' REMOVED.
- THIS PROCEDURE 'FASTAUD' RENAME 'AUDIT'.
12/18/78 - ADD SUPPORT FOR SN PARAMETER

PROCEDURE 'BANNERS'

PURPOSE
PRINT A PAGE WITH 1 TO 8 BANNERS

FUNCTIONAL CATEGORIES: J4

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
```
BEGIN,BANNERS,,OUTPUT,NBANR,B1,B2,B3,B4,B5,B6,B7,B8.
```

DESCRIPTION OF PARAMETERS
```
OUTPUT  - LISTABLE OUTPUT
NBANR   - NUMBER OF BANNERS TO PRINT (0-8)
          (0 - PROGRAM WILL DETERMINE NUMBER OF BANNERS AND
               ADD DATE AND TIME BANNERS, IF THERE IS ROOM)
B1-B8   - UP TO 8 BANNERS (1-10 CHARACTERS EACH)
          THE FOLLOWING ARE RECOGNIZED FOR ANY BI:
             CPU  - MACHINE JOB IS RUNNING ON
             DATE - CURRENT DATE
             TIME - CURRENT TIME
```

DEFAULT BEGIN STATEMENT
```
BEGIN,BANNERS,,OUTPUT,0,CPU,DATE,TIME.
```

MAX FL: 34000B

REMARKS
1, 2, 3, 5, AND 6 BANNERS ARE PRINTED AT 6 LINES/INCH.

4, 7 AND 8 BANNERS ARE PRINTED AT 8 LINES/INCH WITH THE PRINTER RESTORED TO 6 LINES/INCH AT END-OF-PROCEDURE.

AUTHORS
GARY L STUMP - DTNSRDC CODE 2731
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 03/22/78 - GLS

DATE(S) REVISED
06/23/78 - DVS

PROCEDURE 'BDT'

PURPOSE
PRINT A BANNER PAGE WITH DATE AND TIME

FUNCTIONAL CATEGORIES: QO

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN.BDT..OUTPUT.

DESCRIPTION OF PARAMETER
OUTPUT - LISTABLE OUTPUT

DEFAULT BEGIN STATEMENT
BEGIN.BDT..OUTPUT.

MAX FL: 23000B

REMARKS
NONE

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: EARLY 1975

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE 'BIGLOAD'

PURPOSE
CREATE AN ABSOLUTE FILE WHICH WILL ALLOW SOME LARGE PROGRAMS TO LOAD IN LESS CORE THAN NORMALLY NEEDED

FUNCTIONAL CATEGORIES: LO Q3

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,BIGLOAD,,PROGRAM,FL,LFN,ID,PW1,PW2.

DESCRIPTION OF PARAMETERS
PROGRAM - NAME OF USER'S PROGRAM
(THIS WILL ALSO BE THE LFN OF THE GENERATED FILE)
FL - AT LEAST EXACT OCTAL FIELD LENGTH REQUIRED TO EXECUTE THE USER'S PROGRAM
(E.G., 60000 (THE B AT THE END IS NOT SPECIFIED))
LFN - LFN OF USER'S ABSOLUTE PROGRAM
(CANNOT BE THE SAME AS <PROGRAM>)
(IF SPECIFIED, THE USER'S PROGRAM ON <LFN> IS COPIED ONTO NEW FILE <PROGRAM> AFTER THE COMPASS PROGRAM)
ID - IF SPECIFIED, FILE <PROGRAM> WILL BE CATALOGED WITH PFN OF <PROGRAM> UNDER THIS ID
PW1,PW2 - IF ID SPECIFIED, THESE ARE PASSWORDS FOR THE CATALOG (PW=)

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 47000B

REMARKS
BEFORE EXECUTING THIS PROCEDURE, THE ABSOLUTE USER'S PROGRAM SHOULD BE ATTACHED OR CREATED (WITH AN LFN OTHER THAN THE PROGRAM NAME). THIS PROCEDURE WILL THEN CREATE A NEW FILE WITH LFN OF <PROGRAM> WHICH CONTAINS A SHORT COMPASS PROGRAM FOLLOWED BY THE USER'S ABSOLUTE PROGRAM.

THE LOADER LOADS THE COMPASS PROGRAM WHICH IN TURN LOADS THE USER'S PROGRAM.

ERROR MESSAGES
FL NOT SPECIFIED
FL PARAMETER MUST BE SPECIFIED

PROGRAM CANNOT BE SAME AS LFN
PARAMETERS 1 AND 3 MUST BE DIFFERENT

PROGRAM NOT SPECIFIED
PROGRAM PARAMETER MUST BE SPECIFIED

EXAMPLE
COMPILE PROGRAM, CREATE AND CATALOG NEW LOAD FILE, EXECUTE:

```
ATTACH,IN,SOURCEPROGRAM,ID=XXXX.    SOURCE FOR <MYPROG>
FTN,I=IN,OPT=1,L=0.
* LOAD,LGO.            OR    XEQ,LOAD=LGO,NOGO=ABS   (INTERCOM)
* NOGO,ABS.
BEGIN,BIGLOAD,,MYPROG,57000,ABS,XXXX.
MYPROG.
```

* NOTE: IF <MYPROG> IS AN OVERLAY, THE ABSOLUTE WILL BE GENERATED ON THE FILE SPECIFIED IN THE OVERLAY CARD. THIS LFN MUST BE CHANGED (USE BATCH,LFN1,RENAME,LFN2 IN INTERCOM OR COPY TO ANOTHER FILE) BEFORE USING BIGLOAD.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 11/09/77

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE 'BR2CCL'

PURPOSE
CONVERT SEQUENTIAL (UNIVERSITY OF WASHINGTON) BEGIN/REVERT PROCEDURE FILE TO SEQUENTIAL (CDC-SUPPORTED) CYBER CONTROL LANGUAGE FILE AND, OPTIONALLY, CATALOG THE CCL FILE

FUNCTIONAL CATEGORIES: M2

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,BR2CCL,,BR,CCL,ID,OUTPUT.

DESCRIPTION OF PARAMETERS
BR - SEQUENTIAL BEGIN/REVERT PROCEDURE FILE
CCL - OUTPUT SEQUENTIAL CCL PROCEDURE FILE
ID - IF SPECIFIED, <CCL> WILL BE CATALOGED AS:
PROCFILS.ID=<SPECIFIED-ID>
IF OMITTED, <CCL> WILL NOT BE CATALOGED
OUTPUT - LISTABLE OUTPUT
(CONVERSION PROGRAM OUTPUT AND LIST OF CONVERTED PROCEDURE FILE)

DEFAULT BEGIN STATEMENT
BEGIN,BR2CCL,,BR,CCL,,OUTPUT.

MAX FL: 100000B

TIMING: VERY SLOW -- ABOUT 4 B/R STATEMENTS PER CP SECOND

REMARKS
THIS PROCEDURE MAY ONLY BE RUN IN BATCH MODE (WITH CM100000 ON THE JOB CARD).

ALL PROCEDURES MUST BE NAMED. CCL DOES NOT SUPPORT UNNAMED PROCEDURES.

ANY EMBEDDED BINARY (OR DATA) RECORDS MUST BE REMOVED BEFORE THE B/R PROCEDURE FILE IS CONVERTED.

THE FIRST CARD OF EACH LOGICAL RECORD IS ASSUMED TO BE A PROCEDURE HEADER AND WILL BE CONVERTED. IF IT WAS AN UNNAMED PROCEDURE OR A DATA RECORD, THE GENERATED HEADER MUST BE RESTORED TO THE ORIGINAL AND, FOR AN UNNAMED PROCEDURE, AN APPROPRIATE HEADER STATEMENT MUST BE ADDED.

OUTPUT RECORDS WILL BE UP TO 90 CHARACTERS LONG. CORRECT ANY WHICH ARE LONGER THAN 80 CHARACTERS.

EDITLIB IS USED TO CREATE RANDOM PROCEDURE FILES. THE B/R PROGRAM 'CPINDEX' IS NO LONGER AVAILABLE.

AUTHORS
PROCEDURE
DAVID V SOMMER - DTNSRDC CODE 1892.2
CONVERSION PROGRAM
S W CUMPSTON
UNIVERSITY OF ADELAIDE

DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 02/14/78

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

B/R FEATURE RETAINED

CASE - PERMITS SELECTION OF ONE STATEMENT, USING A GIVEN PARAMETER, FROM A SET OF CONTROL STATEMENTS.

FEATURES REMOVED

IF(MON
IF(TUES
ETC. - ALLOW CONDITIONAL EXECUTION DEPENDING ON THE DAY OF THE WEEK. AN ALTERNATIVE METHOD IS DESCRIBED BELOW.

IF(EOR
IF(EOF
IF(EOI - ALLOW CONDITIONAL EXECUTION DEPENDING ON WHETHER THE LAST READ OPERATION ON A GIVEN FILE ENCOUNTERED AN EOR, EOF OR EOI. THE ONLY TEST AVAILABLE WITH CCL IS THAT FOR EOF, AND TAKES THE FORM:

```
IFE(FILE(LFN,EOF),LABEL)
```

DUP
ENDUP - DUPLICATE ONE OR MORE CONTROL CARDS. A $ IN THE DUP LOOP IS REPLACED BY THE NEXT SEQUENTIAL NUMBER (1,2,...). WHILE/ENDW WILL REPLACE DUP/ENDUP. THE $ FEATURE IS NOT AVAILABLE IN CCL. THE CONVERSION PROGRAM WILL NOT PROCESS DUP/ENDUP OR REMOVE THE $. A SUGGESTED CHANGE:

```
..... B/R .....          ..... CCL .....
DUP,5,3.  -OR-  DUP,5,*.     SET,R1=1.
CARD 1          ...          WHILE,R1.LE.5,LOOP.
CARD 2          ENDUP.       ...
CARD 3                       SET,R1=R1+1.
                             ENDW,LOOP.
```

B/R-CCL DIFFERENCES

HEADER STATEMENT

'.PROC,' ADDED AT START. PROCEDURE NAME TRUNCATED TO 7 CHARACTERS. IF NECESSARY, THE '(' SEPARATOR IS CHANGED TO COMMA AND THE TERMINATOR IS CHANGED TO PERIOD.

*DATA *FILE

*DATA AND *FILE ARE REPLACED BY #DATA AND #FILE, RESPECTIVELY, AND MAY BE USED ONLY IN THE HEADER STATEMENT. THE CONVERSION PROGRAM WILL ADD 'CCLDATA=#DATA,CCLFILE=#FILE' TO EACH HEADER STATEMENT AND CHANGE REFERENCES IN THE PROCEDURE BODY TO CCLDATA OR CCLFILE.

LABELS

LABELS MAY NOT BE OMITTED OR CONTAIN A NUMERIC LINE COUNT. A LABEL STARTING WITH AN ALPHABETIC CHARACTER MUST BE SUPPLIED.

SKIP

LABEL MAY NOT BE OMITTED OR CONTAIN A NUMERIC LINE COUNT. A LABEL STARTING WITH AN ALPHABETIC CHARACTER MUST BE SUPPLIED.

ELSE/ENDIF

LABELS MUST BE SUPPLIED. NOTE THAT AN UNLABELLED STATEMENT MAY NEED TO BE REPLACED BY SEVERAL LABELLED STATEMENTS.

IF(MON... IF(TUE... ETC.

THESE STATEMENTS ARE NOT PROVIDED, HOWEVER, THE EFFECT MAY BE ACCOMPLISHED, ALBEIT CLUMSILY, USING CASE(*DAY) FOLLOWED BY A SERIES OF SET STATEMENTS. A FOLLOWING IFE STATEMENT MAY THEN TEST THAT A PARTICULAR VALUE HAD BEEN SET.

IF(EOR... IF(EOF... IF(EOI...

ONLY A SINGLE TEST FOR EOF IS PROVIDED. THUS,

IF(EOR/EOF/EOI,LFN,LABEL) BECOMES
IFE(FILE(LFN,EOF),LABEL).

IF(AM... IF(PM...

ONE OF THE PREDEFINED VARIABLES KNOWN TO CCL AND AVAILABLE IN AN IFE STATEMENT IS CALLED TIME. THUS,

IF(AM,LABEL) BECOMES IFE((TIME.LT.1200),LABEL)
IF(PM,LABEL) BECOMES IFE((TIME.GE.1200),LABEL)

THE LABEL MAY NOT BE OMITTED OR CONTAIN A NUMERIC LINE COUNT. A LABEL STARTING WITH AN ALPHABETIC CHARACTER MUST BE SUPPLIED.

IF(BATCH... IF(INTERCOM... IF(INT...

ONE OF THE PREDEFINED VARIABLES KNOWN TO CCL AND AVAILABLE IN AN IFE STATEMENT IS CALLED OT. THUS,

IF(BATCH... BECOMES IFE(OT.NE.TXO,...)
IF(INTERCOM... BECOMES IFE(OT.EQ.TXO,...)
IF(INT... BECOMES IFE(OT.EQ.TXO,...)

IF(6400... IF(6600... IF(6700...

ONE OF THE DTNSRDC-ADDED PREDEFINED VARIABLES KNOWN TO CCL AND AVAILABLE IN AN IFE STATEMENT IS CALLED MF. THUS,

IF(6400... BECOMES IFE(MF.EQ.MFC,...)
IF(6600... BECOMES IFE(MF.EQ.MFB,...)
IF(6700... BECOMES IFE(MF.EQ.MFA,...)

CORRECTIONS THE USER MUST MAKE AFTER USING THE CONVERSION PROGRAM:

B/R	CONVERTS TO	CORRECTION
HEADER PARAMETER OF THE FORM *PARAM=	PARAM=$*PARAM$	PARAM=
ELSE(N) N=NUMBER	NO CHANGE	ELSE(LABEL) IF NEEDED, SUPPLY ENDIF(LABEL)
DUP/ENDUP	NOT CHANGED	REPLACE WITH WHILE/ ENDW (SEE PAGE 2). REMOVE $ IN LOOP
* FOR LABEL IN IF, IFC, ELSE, SKIP	STATEMENT NOT CONVERTED	CONVERT STATEMENT MANUALLY
ONE OR MORE PROCEDURES FOLLOW /DATA CARD(S)	HEADERS NOT CHANGED	MAKE NEW HEADERS
SENSE SWITCH TEST OF THE FORM: IF(SSW.-N,LABEL) WHERE N=1,2,3,4,5,6	IFE(SW-N,LABEL)	IFE(.NOT.SWN,LABEL)
UNNAMED PROCEDURE	FIRST CARD IS CONVERTED TO A HEADER	RESTORE TO ORIGINAL AND ADD AN APPROPRIATE HEADER
DATA RECORD	FIRST CARD IS CONVERTED TO A HEADER	RESTORE TO ORIGINAL

CORRECTION THE USER MAY MAKE AFTER USING THE CONVERSION PROGRAM (THESE ARE NOT MANDATORY, BUT WILL IMPROVE THE RUNNING OF THE PROCEDURE):

B/R	CONVERTS TO	CORRECTION
NO REFERENCE TO *DATA IN PROCEDURE	CCLDATA=#DATA IN HEADER	REMOVE
NO REFERENCE TO *FILE IN PROCEDURE	CCLFILE=#FILE IN HEADER	REMOVE
HEADER PARAMETER OF THE FORM *PARAM=PARAM	PARAM=PARAM	PARAM

PROCEDURE 'B7700S'

PURPOSE
PREPARE 9-TRACK EBCDIC TAPE TO MOVE A SINGLE CARD-IMAGE PERMANENT FILE FROM THE CDC 6000 TO THE BURROUGHS B7700

FUNCTIONAL CATEGORIES: K4

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,B7700S,,PFN,ID,VSN,SLOT,L,PW1,PW2.

DESCRIPTION OF PARAMETERS
PFN - PERMANENT FILE NAME (UP TO 40 CHARACTERS)
ID - ID UNDER WHICH PFN IS CATALOGED
VSN - DIEBOLD TAPE NUMBER
SLOT - OPTIONAL SLOT NUMBER (IF VSN IS A BA0000 TAPE)
L - OPTIONAL TAPE LABEL (IF OMITTED, L=ID)
PW1,PW2 - OPTIONAL PASSWORDS (RD AND TK ONLY)

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 20000B

REMARKS
THE TAPE HAS MAXRECSIZE=80, BLOCKSIZE=3840, BLOCKING=48.

ERROR MESSAGES
B7700S REQUIRES MAG TAPE AND MUST BE RUN FROM BATCH
FATAL. USER TRIED TO EXECUTE PROCEDURE VIA INTERCOM.

ID MUST BE SPECIFIED
FATAL. SELF-EXPLANATORY.

VSN MUST BE SPECIFIED
FATAL. SELF-EXPLANATORY.

EXAMPLES
1. TAPE IS NORMALLY KEPT IN THE 6700/6600 ROOM (CA, CB SERIES) OR THE CYBER 74 ROOM (CJ, CR SERIES):
BEGIN,B7700S,,MYFILE,XXXX,CA9999.

2. TAPE IS NORMALLY KEPT IN THE B7700 ROOM (BA SERIES) AND IS IN SLOT 03 IN THE CDC 6700 ROOM:
BEGIN,B7700S,,MYFILE.XXXX,BA9999,03.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 04/09/79

DATE(S) REVISED
05/17/79 - ADD LABEL PARAMETER (L)
10/16/79 - ADD PASSWORD PARAMETERS (PW1,PW2)
10/17/79 - FIX VSN CARD

PROCEDURE 'B7700U'

PURPOSE
PREPARE 9-TRACK EBCDIC TAPE TO MOVE A SINGLE DECK OR ALL DECKS IN AN UPDATE LIBRARY FROM THE CDC 6000 TO THE BURROUGHS B7700

FUNCTIONAL CATEGORIES: K4

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,B7700U,,LIB,ID,DECK,VSN,SLOT,L,NOPL,PW1,PW2.

DESCRIPTION OF PARAMETERS

LIB	- FIRST PART OF PFN (FULL PFN IS LIB_PL) (SEE PARAMETER 'NOPL' BELOW)
ID	- ID UNDER WHICH LIB_PL OR LIB IS CATALOGED
DECK	- SINGLE DECK TO BE TRANSFERRED (IF OMITTED, ENTIRE LIBRARY IS TRANSFERRED)
VSN	- DIEBOLD TAPE NUMBER
SLOT	- OPTIONAL SLOT NUMBER (IF VSN IS A BA0000 TAPE)
L	- OPTIONAL TAPE LABEL (IF OMITTED, L=ID)
NOPL	- IF OMITTED - LIBRARY PFN IS LIB_PL IF NON-BLANK - LIBRARY PFN IS LIB
PW1,PW2	- OPTIONAL PASSWORDS (RD AND TK ONLY)

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 43000B

REMARKS
AN 80-CHARACTER COMPILE FILE IS CREATED (SEQUENCING IN 73-80) AND WRITTEN TO TAPE.

THE TAPE HAS MAXRECSIZE=80, BLOCKSIZE=3840, BLOCKING=48.

ERROR MESSAGES
B7700U REQUIRES MAG TAPE AND
MUST BE RUN FROM BATCH
FATAL. USER TRIED TO EXECUTE PROCEDURE VIA INTERCOM.

ID MUST BE SPECIFIED
FATAL. SELF-EXPLANATORY.

VSN MUST BE SPECIFIED
FATAL. SELF-EXPLANATORY.

EXAMPLES

1. TRANSFER DECK 'MYDECK' FROM LIBRARY 'MYLIBPL'. TAPE IS NORMALLY KEPT IN THE 6700/6600 ROOM (CA, CB SERIES) OR THE CYBER 74 ROOM (CJ, CR SERIES):

```
BEGIN,B7700U,,MYLIB,XXXX,MYDECK,CA9999.
```

2. TRANSFER ENTIRE LIBRARY (LIBRARY PFN IS 'MYLIB'). TAPE IS NORMALLY KEPT IN THE B7700 ROOM (BA SERIES) AND IS IN SLOT 03 IN THE CDC 6700 ROOM:

```
BEGIN,B7700U,.MYLIB,XXXX,,BA9999,03,,X.
```

AUTHOR

DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 04/09/79

DATE(S) REVISED

05/17/79 - ADD LABEL PARAMETER (L)
07/03/79 - ADD NOPL PARAMETER
10/16/79 - ADD PASSWORD PARAMETERS (PW1,PW2)
10/17/79 - FIX VSN CARD

PROCEDURE 'CALC3D'

PURPOSE
THREE-D PROCEDURE FOR CALCOMP PLOTTERS

FUNCTIONAL CATEGORIES: J5

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,CALC3D,,MAC,VSN1,VSN2.TID,INPUT,RERUN.

DESCRIPTION OF PARAMETERS

MAC	- ONE OF -- 763 - CALCOMP 763 PLOTTER 936 - CALCOMP 936 PLOTTER (DEFAULT) 170 - CALCOMP PLOTTER ON HIGH SPEED REMOTE TERMINAL
VSN1	- TAPE DIEBOLD OR SLOT NUMBER (6 CHARACTERS OR LESS) (UNLABELLED TAPE FOR MAC=763: LABELLED TAPE FOR MAC=936)
VSN2	- EXTERNAL STICKER LABEL (SLOT TAPES ONLY)
TID	- TERMINAL ID FOR ROUTING PLOTTER OUTPUT (USED ONLY WHEN MAC=170) (DEFAULT: 012)
INPUT	- FILE CONTAINING CONTROL CARDS
RERUN	- THIS PARAMETER FACILITATES SAME DAY RERUN USING THE SAME TAPE. OMITTED OR 'W' - FIRST/ONLY TIME THIS TAPE IS USED TODAY 'R' - RERUN ON SAME DAY THIS PARAMETER HAS MEANING ONLY FOR MAC=936. HOWEVER, IF SPECIFIED, IT MUST BE A VALID ENTRY.

DEFAULT BEGIN STATEMENT
BEGIN,CALC3D,,936,*.*.012,INPUT,W.
* - NO DEFAULTS FOR THESE PARAMETERS

MAX FL:

REMARKS
A 936 JOB WILL CREATE A LABELLED TAPE WITH A RETENTION PERIOD OF ONE DAY. SUBSEQUENT RERUN(S) ON THE SAME DAY WILL CAUSE THE JOB TO TERMINATE BECAUSE OF UNEXPIRED LABEL. SPECIFYING RERUN=R WILL CAUSE THE CURRENT LABEL TO BE CHECKED RATHER THAN BE RE-WRITTEN. THE FIRST OR ONLY RUN SHOULD OMIT THE RERUN PARAMETER SO THAT THE CURRENT DATE WILL BE WRITTEN ON THE LABEL.

EXAMPLES

```
BEGIN,CALC3D,,936,CA9999.
   (USE LABELLED TAPE CA9999 FOR CALCOMP 936 PLOTTER)

BEGIN,CALC3D,,763,SLOT01,MYTAPE.
   (USE UNLABELLED TAPE IN SLOT 01 HAVING EXTERNAL
   LABEL 'MYTAPE' FOR CALCOMP 763 PLOTTER)
```

AUTHOR

SHARON E GOOD - DTNSRDC CODE 1892.1

DATE WRITTEN: EARLY 1975

DATE(S) REVISED

07/23/76
10/07/76 - MAKE TRANSPARENT TO USER
03/01/78 - CONVERT TO CCL

PROCEDURE 'CCNOTE'

PURPOSE
PRINT A COMPUTER CENTER NOTE OR THE CCN INDEX

FUNCTIONAL CATEGORIES: SO

COMPUTER
CDC 6000

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN.CCNOTE..OPT.OUTPUT.LEFT.PD.

DESCRIPTION OF PARAMETERS
OPT - OPTION. ONE OF:
INDEX - BOTH TOPIC AND NUMBER INDICES
NUMBER - INDEX ORDERED BY CCN NUMBER
TOPIC - INDEX ORDERED BY TOPIC
VVNN - A SPECIFIC CCN. WHERE
VV IS THE VOLUME (2 DIGITS)
NN IS THE NUMBER (2 DIGITS)
OTHER - ASSUMED TO BE <VVNN> AND WILL HAVE
UNPREDICTABLE RESULTS IF IT IS NOT
OUTPUT - LISTABLE OUTPUT
LEFT - CENTERING
LEFT OR OMITTED - LEFT JUSTIFIED ON PAGE
(WILL FIT ON NARROW PAPER)
ANYTHING ELSE - CENTERED ON WIDE PAPER
PD - PRINT DENSITY (FOR OPT=INDEX/NUMBER/TOPIC ONLY)
8 - 8 LINES PER INCH
6 - 6 LINES PER INCH (REQUIRED FOR FICHE OR XEROX)

DEFAULT BEGIN STATEMENT
BEGIN.CCNOTE..INDEX.OUTPUT.LEFT.8.

MAX FL: 33000B

REMARKS
NONE

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 07/10/80

DATE(S) REVISED

PROCEDURE 'COMQ'

PURPOSE
PREPARE AND ROUTE A FILE TO THE MICROFICHE QUEUE

FUNCTIONAL CATEGORIES: Q0

COMPUTER
CDC 6000

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN.COMQ,.LFNPFN.ID.HEADER.FID.PROG.SHIFT.

DESCRIPTION OF PARAMETERS
LFNPFN - LFN OR PFN OF FILE TO BE LISTED
(DEPENDS ON PARAMETER ID)
ID - IF OMITTED, LFNPFN IS AN LFN
IF SPECIFIED, LFNPFN IS A PFN CATALOGED
UNDER THIS ID
HEADER - 0- TO 32-CHARACTER EYE-READABLE HEADING FOR
THE FICHE (IF ANY NON-ALPHAMERIC CHARACTERS,
HEADER MUST BE DOLLAR-DELIMITED:
$THIS HEADER IS DOLLAR-DELIMITED$)
FID - FID FOR ROUTING THE FILE
PROG - COM PROGRAM TO USE. MUST BE ONE WHICH SUPPORTS
A 32-CHARACTER EYE-READABLE TITLE IN THE SECOND
LINE OF THE FILE. SUCH AS:
COMP - FOR COMPILATION AND LOAD MAP LISTINGS
(WILL CREATE AN INDEX)
(132 CHARACTERS PER LINE,
268 PAGES PER FICHE,
PLUS 2 INDEX FRAMES)
COMPF - SAME AS COMP, WITH A BOX AROUND EACH
FRAME
COMQ - FOR REGULAR OUTPUT
(132 CHARACTERS PER LINE,
270 PAGES PER FICHE)
COMQF - SAME AS COMQ, WITH A BOX AROUND EACH
FRAME
(DEFAULT: COMQ)
SHIFT - NUMBER OF COLUMNS TO SHIFT THE OUTPUT
0 - NO SHIFT
(FILE HAS CARRIAGE CONTROL IN COLUMN 1 OF
EACH RECORD, SUCH AS A COMPILATION LISTING OR
PROGRAM OUTPUT)
1 - SHIFT 1 POSITION TO THE RIGHT
(STANDARD COPYSF; USE FOR SOURCE OR DATA
FILES)
>1 - SHIFT SPECIFIED NUMBER OF COLUMNS
(DEFAULT: 0)

DEFAULT BEGIN STATEMENT
BEGIN.COMQ.....COMQ.0.

MAP FL: 150008

REMARKS

THIS PROCEDURE CREATES A FILE WHICH CONTAINS:

- . A CARD-IMAGE WITH <PROG> IN COLUMNS 2-6
- . A CARD-IMAGE WITH <HEADER> IN COLUMNS 2-33
- . THE FIRST OR ONLY FILE IN <LFNPFN>, SHIFTED, IF SO REQUESTED

THIS FILE IS ROUTED TO THE MICROFICHE QUEUE USING:

- . ROUTE,<FILE>,DC=PR,TID=C,FID=<FID>,FC=WW.

EXAMPLES

1) FILE ABCD,ID=ZYXW IS A SOURCE FILE TO BE PUT ONTO FICHE WITH AN EYE-READABLE TITLE OF
'PROGRAM ABCD,ID=ZYXW 05/07/80'
OUTPUT, WHICH IS TO BE CENTERED, IS TO GO TO ZYXW:

```
BEGIN,COMQ,,ABCD,ZYXW,
$PROGRAM ABCD,ID=ZYXW  05/07/80$,ZYXW,,26.
```

2) THE DATA IN LOCAL FILE 'INDATA' IS TO BE PUT ONTO FICHE WITH AN EYE-READABLE TITLE 'DATA A/001 05/07/80'
OUTPUT IS TO GO TO XXXX:

```
BEGIN,COMQ,,INDATA,,$DATA A/001 05/07/80$,XXXX,,1.
```

3) FILE EFGH,ID=ZYXW IS A LISTABLE FILE TO BE PUT ONTO FICHE WITH AN EYE-READABLE TITLE OF
'FILE EFGH,ID=ZYXW 05/07/80'
OUTPUT IS TO GO TO ZYXW:

```
BEGIN,COMQ,,EFGH,ZYXW,
$FILE EFGH,ID=ZYXW  05/07/80$,ZYXW.
```

4) THE COMPILATION IN LOCAL FILE 'OUT' IS TO BE PUT ONTO FICHE WITH THE EYE-READABLE TITLE
'PROGRAM QRST -- 05/07/80'
OUTPUT IS TO GO TO XXXX, FRAMES ARE TO BE OUTLINED AND AN INDEX CREATED:

```
BEGIN,COMQ,,OUT,,$PROGRAM QRST -- 05/07/80$,XXXX,
COMPF.
```

AUTHORS

DAVID V SOMMER - DTNSRDC CODE 1892.2 (CDC PROCEDURE COMQ)
BARBARA DAVIS - DTNSRDC CODE 1892.1 (COM PROCEDURES)

DATE WRITTEN: 05/07/80

DATE(S) REVISED

PROCEDURE 'COPYBLK'

PURPOSE
REBLOCK STRANGER TAPES TO SCOPE STANDARD FILES (BOTH UNBLOCKED CARD AND PRINT LINE IMAGE TAPES AND BLOCKED STRANGER TAPES)

FUNCTIONAL CATEGORIES: K4

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
```
BEGIN,COPYBLK,,RB,MRL,MBL,TAPE1,TAPE2,REW1,REW2.
```

DESCRIPTION OF PARAMETERS

RB	- NUMBER OF RECORDS PER BLOCK IF OMITTED OR 1 - COPY UNBLOCKED STRANGER FILES (CARD AND PRINT LINE IMAGES) OTHER - COPY BLOCKED STRANGER FILES
MRL	- MAXIMUM RECORD LENGTH (RB NOT EQ 1) (NUMBER OF 6-BIT CHARACTERS)
MBL	- MAXIMUM BLOCK LENGTH (RB NOT EQ 1) (TOTAL NUMBER OF CHARACTERS PER BLOCK (MUST BE RB TIMES MRL))
TAPE1	- INPUT STRANGER FILE (SEE REMARKS)
TAPE2	- OUTPUT SCOPE STANDARD FILE
REW1	- OMITTED - REWIND TAPE1 AFTER USE N - DO NOT REWIND TAPE1 AFTER USE
REW2	- OMITTED - REWIND TAPE2 AFTER USE N - DO NOT REWIND TAPE2 AFTER USE

DEFAULT BEGIN STATEMENT
```
IF RB OMITTED OR 1:
   BEGIN,COPYBLK,,1,150,150,TAPE1,TAPE2.
IF RB NOT EQ 1:
   BEGIN,COPYBLK,,RB,80,*,TAPE1,TAPE2.
      (* - USER MUST SUPPLY)
```

MAX FL: 70000B

REMARKS
A 9-TRACK TAPE MUST BE COPIED TO DISK BEFORE USING COPYBLK.

EXAMPLES
```
BEGIN,COPYBLK.
   (COPY UNBLOCKED FILES)
BEGIN,COPYBLK,,10,MBL=800.
   (COPY BLOCKED CARD-IMAGE FILES, 10 RECORDS PER
   BLOCK.  NOTE THAT USER MUST SUPPLY MBL.)
```

AUTHOR
SHARON E GOOD - DTNSRDC CODE 1892.1

DATE WRITTEN: EARLY 1975

DATE(S) REVISED
10/07/76 - REVERT(ABORT) ADDED
11/22/76 - REW1,REW2 ADDED
03/01/78 - CONVERT TO CCL

PROCEDURE 'COPYLIB'

PURPOSE
CONDENSE (AND SORT) AN EDITLIB USER LIBRARY PRESERVING AL, FL, FLO VALUES. BINDEX AND LISTBIN LISTS ARE PROVIDED.

FUNCTIONAL CATEGORIES: K3 Q7

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,COPYLIB,,LIB,ID,OUTPUT,SORT,NOEDLST,AC,PW1,PW2.

DESCRIPTION OF PARAMETERS

LIB	- PFN OF LIBRARY (1-7 CHARACTERS)	
ID	- ID UNDER WHICH LIBRARY IS CATALOGED (DEFAULT: SYSTEM PUBLIC ACCESS ID)	
OUTPUT	- LISTABLE OUTPUT	
SORT	- OMITTED OR 'SORT'	- SORT ROUTINE NAMES (NEW LIBRARY MAY BE REORDERED)
	ANYTHING ELSE	- DO NOT SORT
NOEDLST	- OMITTED	- DO NOT PRINT A COPY OF EDITLIB OUTPUT
	ANYTHING ELSE	- PRINT EDITLIB OUTPUT
AC	- JOB ORDER NUMBER FOR CATALOG OF NEW LIBRARY (MAY BE OMITTED)	
PW1,PW2	- PASSWORDS FOR CATALOG OF NEW LIBRARY	

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 46000B+

REMARKS
THE LOWEST CYCLE OF LIB IS PURGED, IF POSSIBLE. AT LEAST 2 CYCLES ARE ALWAYS RETAINED.

OCCASIONALLY, EDITLIB WILL LOSE A PORTION OF A DECK DURING THE COPY PROCESS. THE DIRECTORY WILL SHOW THAT THE DECK IS THERE, BUT EXECUTING IT WILL CAUSE A LOADER ERROR. FOR THIS REASON, THE 'LISTBIN' LIST IS PROVIDED. A QUICK EXAMINATION OF THIS LIST WILL SHOW ANY TROUBLE SPOTS. IN ADDITION TO THE LINES FOR EACH DECK IN THE LIBRARY, THERE SHOULD BE SIX (6) OTHER LINES (PRECEDED BY RIGHT BRACKET (!)). NORMALLY, THEY ARE AT THE END OF THE LIBRARY, BUT MAY BE SPLIT FOUR (4) AT THE START AND TWO (2) AT THE END OF THE LIBRARY. ONE OR MORE '!' LINES ANYWHERE ELSE IN THE LISTBIN LISTING INDICATES WHERE THE BAD DECK IS. THE QUICKEST WAY TO

```
   RESTORE THE 'MISSING' DECK IS AS FOLLOWS:
      ATTACH,MYLIB,ID=XXXX,PW=....     (GET CURRENT CYCLE
                                        WITH EXTEND PERMISSION)
      ATTACH,LC,MYLIB,ID=XXXX,LC=1.    (GET LOWEST CYCLE)
      BEGIN,UTILITY,,GETOBJ,LC,ROUTINE,FILE,LIB.    (EXTRACT
                                                     ROUTINE)
      EDITLIB.
      EXTEND,MYLIB.
      '    7/8/9     EOR
      LIBRARY(MYLIB,OLD)
      REPLACE(*,FILE)
      FINISH.
      ENDRUN.
      "    6/7/8/9   EOF
```

AUTHOR
   DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 11/18/76

DATE(S) REVISED
   03/01/78 - CONVERT TO CCL

```
PROCEDURE 'COPYS'

PURPOSE
   ATTACH, EXECUTE AND RETURN THE RIQSCOPYS PROGRAM

FUNCTIONAL CATEGORIES:  K1

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN,COPYS,,COPY,INPUT,OUTPUT,N.

DESCRIPTION OF PARAMETERS
   COPY     - ONE OF THE 'COPYS(COPY' OPTIONS
              (SEE REMARKS)
   INPUT    - INPUT FILE
   OUTPUT   - OUTPUT FILE
   N        - NUMBER OF TIMES OR FILES

DEFAULT BEGIN STATEMENT
   BEGIN,COPYS,,COPY,INPUT,OUTPUT,1.

MAX FL: 15000B

REMARKS
   IF RIOSCOPYS IS ALREADY ATTACHED (WITH LFN 'COPYS'), IT WILL
   STILL BE ATTACHED AFTER THIS PROCEDURE.

   A DOCUMENT DESCRIBING COPYS MAY BE PRINTED BY:
      BEGIN,DOCGET,,OTHER,,COPYS,OUTPUT.

EXAMPLE
   REWIND AND COPY A RANDOM FILE:
      ATTACH,RANIN,....          INPUT RANDOM FILE
      REQUEST,RANOUT,*PF.        OUTPUT RANDOM FILE
      BEGIN,COPYS,,COPYIX,RANIN,RANOUT.
      CATALOG,RANOUT,....

AUTHOR
   NORTHWESTERN UNIVERSITY

DATE WRITTEN:

DATE(S) REVISED
   03/01/78 - CONVERT TO CCL
```

PROCEDURE 'CV029'

PURPOSE
CONVERT TO 029 PUNCH CODE

FUNCTIONAL CATEGORIES: J1 M2 O1

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,CV029.,LFN,TID,FID.

DESCRIPTION OF PARAMETERS
LFN - FILE TO BE CONVERTED
TID - ID OF TERMINAL AT WHICH THE 029 DECK IS TO BE PUNCHED. USE 'C' FOR CENTRAL SITE OR USE THE 3-CHARACTER 1700 TERMINAL ID. IF OMITTED, FILE 'ZZZ029' WILL CONTAIN THE CONVERTED DECK. TO PUNCH, USE
ROUTE,ZZZ029,DC=PU,EC=80COL,TID=<TID>,FID=*<FID>.
FID - IF TID IS SUPPLIED, FID IS THE 1- TO 5-CHARACTER FILE-ID TO BE USED. IF OMITTED, THE JOB/INTERCOM SESSION NAME IS USED.

DEFAULT BEGIN STATEMENT
BEGIN,CV029.,INPUT.

REMARKS
NONE

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 10/17/78

DATE(S) REVISED
07/25/79 - ADD FID PARAMETER

```
PROCEDURE 'DISPOST'

PURPOSE
   INVOKE DISSPLA POSTPROCESSORS (TEK300 OR TEK480)

FUNCTIONAL CATEGORIES:  Q3

COMPUTER
   CDC 6000

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN,DISPOST,,WHICH,PFN,ID,PW1,PW2.

DESCRIPTION OF PARAMETERS
   WHICH    - DESIRED POSTPROCESSOR.  ONE OF:
                TEK300
                TEK480
   PFN      - NAME OF THE COMPRESSED PLFILE
              (THE PROCEDURE FIRST TRIES TO ATTACH A FILE HAVING
              'COMPRESSED' SUFFIXED TO <PFN>, I.E.,
              <PFN>_COMPRESSED.  IF THIS FILE DOES NOT EXIST,
              THEN THE PFN IS ASSUMED TO BE JUST <PFN>.)
   ID       - ID UNDER WHICH <PFN> IS CATALOGED (REQUIRED)
   PW1,PW2  - RD AND TK PASSWORDS (IF ANY) FOR <PFN>

DEFAULT BEGIN STATEMENT
   NO MEANINGFUL DEFAULT VALUES

MAX FL:

REMARKS
   WHEN TEK480 IS USED, THE SCREEN(80,66) IS SET AUTOMATICALLY.

ERROR MESSAGES
   ID MUST BE SPECIFIED
      SELF-EXPLANATORY

   INVALID POSTPROCESSOR (<WHICH>)
      <WHICH> IS THE INVALID USER ENTRY.  ONLY TEK300 AND
      TEK480 ARE SUPPORTED.

   PLFILE IS <PFN>COMPRESSED,ID=<ID>   -OR-
   PLFILE IS <PFN>,ID=<ID>
      NAME OF PLFILE BEING USED

   SCREEN(80,66) DEFINED
      A REMINDER OF THE SCREEN CHANGE WHEN TEK480 IS USED.

AUTHOR
   ED ZIVI         - DTNSRDC CODE 2731
   DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: LATE 1979 (EZ)

DATE(S) REVISED
   01/29/80 - DVS - CHANGE TO A PUBLIC-ACCESS PROCEDURE
```

PROCEDURE 'DOCADD'

PURPOSE
ADD ONE DOCUMENT TO A DOCUMENTATION FILE

FUNCTIONAL CATEGORIES: Q6

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,DOCADD,,LIB,ID,PROG,AFTER,LFN,AC,PW1,PW2,PW3,PW4,PW5.

DESCRIPTION OF PARAMETERS
LIB - FIRST PART OF DOCUMENTATION FILE PFN
(FULL PFN IS LIB_DOCUMENTATION)
ID - ID UNDER WHICH IT IS CATALOGED
(DEFAULT: SYSTEM PUBLIC ACCESS ID)
PROG - NAME OF DOCUMENT TO BE ADDED
AFTER - NAME OF DOCUMENT AFTER WHICH THIS DOCUMENT IS TO BE PLACED
(IF BLANK, WILL GO IN ALPHABETICAL ORDER.
IF '0', WILL GO AT START OF FILE.
IF 'END', WILL GO AT END OF FILE.)
LFN - LFN OF FILE CONTAINING NEW DOCUMENT.
IT IS REWOUND BEFORE BEING READ. IT MUST NOT CONTAIN A *DECK CARD.
AC - JOB ORDER NUMBER FOR CATALOG
(MAY BE OMITTED)
PW1-PW5 - PASSWORDS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 31000B

REMARKS
THE LOWEST CYCLE OF LIB_DOCUMENTATION IS PURGED, IF POSSIBLE. AT LEAST 2 CYCLES ARE ALWAYS RETAINED.

EXAMPLES
ASSUME THE OLD DOCUMENT FILE WAS CATALOGED WITH:
CATALOG,FILE,MYDOCUMENTATION,ID=XXXX,XR=RONLY.
AND HAS DOCUMENTS: A, B, D, F, G, H.

TO ADD DOCUMENT C (ON LFN CC) IN ALPHABETICAL ORDER:
BEGIN,DOCADD,,MY,XXXX,C,,CC,,RONLY.
THE NEW DOCUMENT FILE WILL HAVE: A, B, C, D, F, G, H.

TO ADD DOCUMENT C (ON LFN CC) AT START OF THE FILE:
BEGIN,DOCADD,,MY,XXXX,C,0,CC,,RONLY.
THE NEW DOCUMENT FILE WILL HAVE: C, A, B, D, F, G, H.

TO ADD THE DOCUMENT C (ON LFN CC) AT THE END OF THE FILE:
BEGIN,DOCADD,,MY,XXXX,C,END,CC,RONLY.
THE NEW DOCUMENT WILL HAVE: A, B, D, F, G, H, C.

```
TO ADD THE DOCUMENT C (ON LFN CC) AFTER DOCUMENT F:
   BEGIN,DOCADD,,MY,XXXX,C,F,CC,,RONLY.
THE NEW DOCUMENT FILE WILL HAVE:  A, B, D, F, C, G, H.

SUGGESTED COMPLETE SEQUENCE OF OPERATIONS FOR CREATING A
DOCUMENT (USING DOC AND EDITOR) AND ADDING IT TO AN EXISTING
DOCUMENT FILE:
   CONNECT,OUTPUT
   ATTACH,UTILITY.
   LIBRARY,UTILITY.
   DOC.      (OR  MTDOC.  OR  PFDOC.)
      (CREATE DOCUMENT IN FILE 'DOCMNT')
   EDITOR
   EDIT,DOCMNT,SEQ
      (MODIFY, IF NECESSARY.  INDICATE START OF EACH PAGE
       BY PUTTING A '1' IN COLUMN 1 OF EACH LINE WHICH IS TO
       BE THE FIRST LINE OF A PAGE.)
   SAVE,NEWDOC,NOSEQ
   LINER,NEWDOC.
      (WILL COUNT PAGES AND LINES PER PAGE.  IF ANY PAGE HAS
       MORE THAN 59 LINES, GO BACK AND RESTRUCTURE THE
       DOCUMENT.)
   BYE
   DOCIT,NEWDOC,FILE.
      (WILL LENGTHEN EACH PAGE TO 60 LINES ADDING THE DATE,
       DOCUMENT NAME AND PAGE COUNTS.)
   BEGIN,DOCADD,,MYLIB,XXXX,DOCNAME,,FILE,,RONLY.
      (WILL ADD THE DOCUMENT JUST CREATED (ON LFN 'FILE') TO
       THE DOCUMENT FILE WITH PFN=MYLIBDOCUMENTATION,
       ID=XXXX, IN ALPHABETICAL ORDER ACCORDING TO THE
       SPECIFIED DOCUMENT NAME 'DOCNAME'.  ALPHABETICAL
       ORDER IS RECOMMENDED SO THAT LISTS OF THE CONTENTS
       WILL BE MORE READABLE.)
   BEGIN,DOCLIST,,MYLIB,XXXX,OUT.
      (GET A LIST OF DOCUMENT NAMES WITH NUMBER OF CARDS,
       LINES AND PAGES FOR EACH.)
   PROGDOC,MYLIB,XXXX,DOCNAME,OUT.
      (LIST THE DOCUMENT FROM THE DOCUMENT FILE TO VERIFY IT
       WAS ADDED PROPERLY.)
   BANNER,END,OUT.
      (TO KEEP THE SYSTEM FROM PRINTING "END OF LIST"
       MESSAGES ON LAST PAGE OF DOCUMENT.)
   ROUTE,OUT,DC=PR,....
      (PRINT THE LISTS ON ANY AVAILABLE PRINTER.)

AUTHOR
   DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 02/01/76

DATE(S) REVISED
   03/01/78 - CONVERT TO CCL; INCREASE TO 5 PASSWORDS
```

PROCEDURE 'DOCDATE'

PURPOSE
LIST DOCUMENT NAMES (ON *DECK CARDS) TOGETHER WITH THE DOCUMENT DATE AND PAGE NUMBERS (FROM BOTTOM LINE OF EACH PAGE)

FUNCTIONAL CATEGORIES: 01

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,DOCDATE..LIB,ID,OUTPUT,PW1,PW2,PW3,PW4,PW5..

DESCRIPTION OF PARAMETERS
LIB - FIRST PART OF PFN
(FULL PFN IS PFN_DOCUMENTATION)
ID - ID UNDER WHICH IT IS CATALOGED
(DEFAULT: SYSTEM PUBLIC ACCESS ID)
OUTPUT - LISTABLE OUTPUT
PW1-PW5 - PASSWORDS FOR ATTACHING THE DOCUMENTATION FILE

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 32000B

REMARKS
NONE

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 02/05/80

DATE(S) REVISED

PROCEDURE 'DOCDELE'

PURPOSE
DELETE ONE DOCUMENT FROM A DOCUMENTATION FILE

FUNCTIONAL CATEGORIES: Q6

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,DOCDELE,,LIB,ID,PROG,AC,PW1,PW2,PW3,PW4,PW5.

DESCRIPTION OF PARAMETERS
LIB - FIRST PART OF DOCUMENTATION FILE PFN
(FULL PFN IS LIB_DOCUMENTATION)
ID - ID UNDER WHICH IT IS CATALOGED
(DEFAULT: SYSTEM PUBLIC ACCESS ID)
PROG - NAME OF DOCUMENT TO BE DELETED
AC - JOB ORDER NUMBER FOR CATALOG
(MAY BE OMITTED)
PW1-PW5 - PASSWORDS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 31000B

REMARKS
THE LOWEST CYCLE OF LIB_DOCUMENTATION IS PURGED, IF POSSIBLE. AT LEAST 2 CYCLES ARE ALWAYS RETAINED.

EXAMPLES
ASSUME THE OLD DOCUMENT FILE WAS CATALOGED WITH:
CATALOG,FILE,MYDOCUMENTATION,ID=XXXX,XR=RONLY.
AND HAS DOCUMENTS: A, B, D, F, G, H.

TO DELETE DOCUMENT G:
BEGIN,DOCDELE,,MY,XXXX,G,,RONLY.
THE NEW DOCUMENT FILE WILL HAVE: A, B, D, F, H.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 02/01/76

DATE(S) REVISED
03/01/78 - CONVERT TO CCL; INCREASE TO 5 PASSWORDS

PROCEDURE 'DOCDOC'

PURPOSE
LIST DOCUMENTATION FOR PROCEDURES DOCADD, DOCDATE, DOCDELE, DOCDOC, DOCFILE, DOCGET, DOCLIST, DOCREPL

FUNCTIONAL CATEGORIES: 01

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN.DOCDOC,,OUTPUT,LEFT.

DESCRIPTION OF PARAMETERS
OUTPUT - LISTABLE OUTPUT
LEFT - OMITTED - PRINT LEFT-JUSTIFIED ON PAGE
NON-BLANK - PRINT CENTERED ON WIDE PAGE

DEFAULT BEGIN STATEMENT
BEGIN.DOCDOC,,OUTPUT.

MAX FL: 25000B

REMARKS
A BANNER PAGE PRECEDES THE LIST AND CONTAINS THE WORD 'DOCDOC'. A BANNER PAGE WITH THE WORD 'END' FOLLOWS THE LIST.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 02/10/77

DATE(S) REVISED
03/01/78 - CONVERT TO CCL
02/05/80 - ADD PROCEDURE DOCDATE TO LIST

PROCEDURE 'DOCFILE'

PURPOSE
ATTACH A DOCUMENTATION FILE

FUNCTIONAL CATEGORIES: Q6

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,DOCFILE,,LFN,PFN,ID,PW1,PW2,PW3,PW4,PW5.

DESCRIPTION OF PARAMETERS
LFN - LOCAL FILE NAME TO BE USED
PFN - FIRST PART OF PFN.
FULL PFN IS PFN_DOCUMENTATION.
ID - ID UNDER WHICH IT IS CATALOGED
(DEFAULT: SYSTEM PUBLIC ACCESS ID)
PW1-PW5 - PASSWORDS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 4500B

REMARKS
SAME AS: ATTACH,LFN,PFN_DOCUMENTATION,ID=*----*,PW=PW1,PW2,
PW3,PW4,PW5.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892

DATE WRITTEN: 02/01/76

DATE(S) REVISED
03/01/78 - CONVERT TO CCL: INCREASE TO 5 PASSWORDS

PROCEDURE 'DOCGET'

PURPOSE
GET (EXTRACT) SPECIFIED DOCUMENT FROM A DOCUMENTATION FILE

FUNCTIONAL CATEGORIES: Q6

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,DOCGET,,LIB,ID,PROG,OUTPUT,LEFT,PW1,PW2,PW3,PW4,PW5.

DESCRIPTION OF PARAMETERS

LIB	- FIRST PART OF PFN (FULL PFN IS PFN_DOCUMENTATION)
ID	- ID UNDER WHICH IT IS CATALOGED (DEFAULT: SYSTEM PUBLIC ACCESS ID)
PROG	- NAME OF DOCUMENT TO BE EXTRACTED (USE 'ALL' FOR ALL DOCUMENTS)
OUTPUT	- LISTABLE OUTPUT
LEFT	- PRINT CENTERING OMITTED OR 'LEFT' - LEFT-JUSTIFIED ON PAGE OTHER - CENTERED ON WIDE PAGE
PW1-PW5	- PASSWORDS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 30000B

REMARKS
NONE

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 02/01/76

DATE(S) REVISED
12/01/77 - ADD 'LEFT' PARAMETER
03/01/78 - CONVERT TO CCL: ADD 5 PASSWORDS

PROCEDURE 'DOCLIST'

PURPOSE
LIST DOCUMENT NAMES (ON *DECK CARDS) IN A DOCUMENTATION FILE

FUNCTIONAL CATEGORIES: Q6

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,DOCLIST,,LIB,ID,OUTPUT,PW1,PW2,PW3,PW4,PW5.

DESCRIPTION OF PARAMETERS
LIB - FIRST PART OF PFN
(FULL PFN IS PFN_DOCUMENTATION)
ID - ID UNDER WHICH IT IS CATALOGED
(DEFAULT: SYSTEM PUBLIC ACCESS ID)
OUTPUT - LISTABLE OUTPUT
PW1-PW5 - PASSWORDS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 270006

REMARKS
IN ADDITION TO THE DOCUMENT NAMES, THE NUMBER OF CARDS,
LINES AND PAGES IS GIVEN FOR EACH DOCUMENT.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 02/01/76

DATE(S) REVISED
04/23/76
03/01/78 - CONVERT TO CCL; ADD 5 PASSWORDS

PROCEDURE 'DOCREPL'

PURPOSE
REPLACE ONE DOCUMENT IN A DOCUMENTATION FILE

FUNCTIONAL CATEGORIES: Q6

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,DOCREPL,,LIB,ID,PROG,AFTER,LFN,AC,PW1,PW2,PW3,PW4,PW5.

DESCRIPTION OF PARAMETERS
LIB - FIRST PART OF DOCUMENTATION FILE PFN
(FULL PFN IS LIB_DOCUMENTATION)
ID - ID UNDER WHICH IT IS CATALOGED
(DEFAULT: SYSTEM PUBLIC ACCESS ID)
PROG - NAME OF DOCUMENT TO BE REPLACED
AFTER - NAME OF DOCUMENT AFTER WHICH THIS DOCUMENT IS TO BE PLACED
(IF BLANK, WILL GO IN ALPHABETICAL ORDER.
IF '0', WILL GO AT START OF FILE.
IF 'END', WILL GO AT END OF FILE.)
(USED ONLY IF PROG DOES NOT ALREADY EXIST IN THE DOCUMENT FILE.)
LFN - LFN OF FILE CONTAINING NEW DOCUMENT.
IT IS REWOUND BEFORE BEING READ. IT MUST NOT CONTAIN A *DECK CARD.
AC - JOB ORDER NUMBER FOR CATALOG
(MAY BE OMITTED)
PW1-PW5 - PASSWORDS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 31000B

REMARKS
THE LOWEST CYCLE OF LIB_DOCUMENTATION IS PURGED, IF POSSIBLE. AT LEAST 2 CYCLES ARE ALWAYS RETAINED.

EXAMPLES
ASSUME THE OLD DOCUMENT FILE WAS CATALOGED WITH:
CATALOG,FILE,MYDOCUMENTATION,ID=XXXX,XR=RONLY.
AND HAS DOCUMENTS: A, B, D, F, G, H.

TO REPLACE DOCUMENT F (NEW DOCUMENT ON LFN FF):
BEGIN,DOCREPL,,MY,XXXX,F,,FF,,RONLY.
THE NEW DOCUMENT FILE WILL HAVE: A, B, D, F, G, H.

TO REPLACE DOCUMENT E (NEW DOCUMENT ON LFN EE):
BEGIN,DOCREPL,,MY,XXXX,E,,EE,,RONLY.
THE NEW DOCUMENT FILE WILL HAVE: A, B, D, E, F, G, H.

NOTE THAT SINCE E DID NOT EXIST, REPLACE WAS CHANGED TO ADD. BECAUSE THE AFTER PARAMETER WAS OMITTED, E WAS ADDED ALPHABETICALLY.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 02/01/76

DATE(S) REVISED
03/01/78 - CONVERT TO CCL; INCREASE TO 5 PASSWORDS

PROCEDURE 'DOCTAPE'

PURPOSE
EXTRACT (PRINT) ONE OR ALL DOCUMENTS FROM A DOCUMENT FILE ON TAPE

FUNCTIONAL CATEGORIES: Q6

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,DOCTAPE,,LIB,DOC,OUTPUT,LEFT.

DESCRIPTION OF PARAMETERS
LIB - LIBRARY CONTAINING PROGRAM WHOSE DOCUMENT IS REQUESTED
DOC - NAME OF DOCUMENT (USE 'ALL' TO PRINT ALL DOCUMENTS)
OUTPUT - LISTABLE OUTPUT
LEFT - OMITTED OR LEFT - PRINT AT LEFT OF PAGE
ANYTHING ELSE - PRINT IN CENTER OF WIDE PAPER

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 32000B

REMARKS
DOCTAPE IS A BATCH-ONLY PROCEDURE.

THE FOLLOWING LIBRARIES ARE SUPPORTED:
ARLNARG
EISPACK
FUNPACK
IMSL
LINPACK
MINPACK
MSL (ONLY A FEW)

GENERALLY, THE DOCUMENTS ARE SOME OF THE COMMENT CARDS EXTRACTED FROM THE SOURCE PROGRAMS.

ERROR MESSAGES
DOCTAPE REQUIRES A TAPE AND MUST BE RUN IN BATCH
USER TRIED TO USE DOCTAPE UNDER INTERCOM

EISPACK DOCUMENTATION NOT READY
SELF-EXPLANATORY

INVALID LIBRARY (<LIB>)
SELF-EXPLANATORY (SEE REMARKS ABOVE)

NO DOCUMENT REQUESTED
SELF-EXPLANATORY

NO LIBRARY REQUESTED
SELF-EXPLANATORY

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 09/01/77

DATE(S) REVISED
03/01/78 - CONVERT TO CCL
11/08/79 - ADD LINPACK

PROCEDURE 'GETPROD'

PURPOSE
GET PRODUCTS FILE(S) FOR NOS/BE LEVELS 461, 439, 434, 420, 414, 410, 406, 401, 380

FUNCTIONAL CATEGORIES: Q0

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,GETPROD,,LVL,COBOL5,SORTMRG.

DESCRIPTION OF PARAMETERS
LVL - DESIRED LEVEL (SEE PURPOSE ABOVE)
(LFN 'PROD' WILL CONTAIN THE PRODUCTS FILE)
COBOL5 - NON-BLANK - GET COBOL5 FILE (LVL=461/434)
(LFN 'CBL' WILL CONTAIN IT)
SORTMRG - NON-BLANK - GET SORT/MERGE FILE (LVL=461)
(LFN 'SORTLIB' WILL CONTAIN IT)

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 20000B

REMARKS
LVL=414/410/406/401/380 ARE OBTAINED FROM TAPE AND MUST BE RUN IN BATCH MODE.

ERROR MESSAGES
GETPROD BELOW LVL=420 REQUIRES A TAPE
AND MUST BE RUN FROM BATCH
SELF-EXPLANATORY

INVALID LEVEL (<LVL>)
MUST BE ONE OF:
461 439 434 420 414 410 406 401 380
SELF-EXPLANATORY

NO LEVEL REQUESTED
MUST BE ONE OF:
461 439 434 420 414 410 406 401 380
SELF-EXPLANATORY

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 11/30/78

DATE(S) REVISED

PROCEDURE 'GRIPE'

PURPOSE
ALLOW USER TO MAKE GRIPES OR SUGGESTIONS DIRECTLY TO THE COMPUTER.

FUNCTIONAL CATEGORIES: SO

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,GRIPE,,OUTPUT,PROMPT,DUMMY,INPUT.

DESCRIPTION OF PARAMETERS
OUTPUT - LISTABLE OUTPUT, IF USER REQUESTS A COPY OF HIS COMMENTS. TO PRINT AT THE TELETYPE, USER MUST CONNECT,OUTPUT.
PROMPT - INTERACTIVE USE ONLY:
IF NO - ONLY NOMINAL PROMPTING IS PROVIDED.
IF OMITTED OR ANYTHING ELSE - FULL PROMPTING IS PROVIDED.
DUMMY - RESERVED FOR FUTURE USE
INPUT - BATCH: FILE FROM WHICH GRIPE AND ADMINISTRATIVE INFORMATION IS TO BE READ.
INTERACTIVE: IF GRIPE IS TO BE ENTERED DIRECTLY FROM THE KEYBOARD, OMIT THIS PARAMETER.
IF THE GRIPE WAS PREPARED EARLIER (E.G., USING EDITOR), ENTER THE LFN OF THE FILE CONTAINING THE GRIPE (DO NOT USE LFN 'INPUT').

DEFAULT BEGIN STATEMENT
BATCH : BEGIN,GRIPE,,OUTPUT,,,INPUT.
INTERACTIVE: BEGIN,GRIPE,,OUTPUT.

MAX FL: 360005

REMARKS
ALL GRIPES WILL BE READ AND TROUBLE FORMS PREPARED, IF APPROPRIATE.

DATA CARDS (BATCH ONLY)
THE GRIPE IS ENTERED IN COLUMNS 1-70 OF AS MANY CARDS AS REQUIRED (PLEASE BE BRIEF). THIS IS FOLLOWED BY A CARD WITH 'END ' IN COLUMNS 1-10.
THE LAST CARD HAS ADMINISTRATIVE INFORMATION FOR PREPARING A TROUBLE FORM, SHOULD ONE BE NECESSARY. IT CONTAINS:

COL	CONTENTS
1-20	NAME
21-40	DTNSRDC CODE OR COMPANY NAME
41-50	TELEPHONE
51-54	USER INITIALS (OF THE FORM XXXX)

```
EXAMPLES
   THE SIMPLEST FORM FOR BATCH USE:
      JOB CARD
      CHARGE CARD
      BEGIN,GRIPE.
      '     7/8/9   EOR
         (GRIPE)
      END
      NAME      ...     CODE      ...     PHONE     INIT
      "   6/7/8/9   EOF

   THE SIMPLEST FORM FOR INTERACTIVE:
      CONNECT,OUTPUT.
      BEGIN,GRIPE.

AUTHOR
   DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 03/76

DATE(S) REVISED
   03/01/78 - CONVERT TO CCL
```

PROCEDURE 'LGOTREE'

PURPOSE
GENERATE CROSS-REFERENCE LISTS AND TREE STRUCTURE FROM
BINARY RELOCATABLE OBJECT PROGRAM

FUNCTIONAL CATEGORIES: Q6

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN.LGOTREE,,LFN,OUTPUT,RFL.

DESCRIPTION OF PARAMETERS
LFN - RELOCATABLE PROGRAM TO BE PROCESSED (DEFAULT: LGO)
OUTPUT - LISTABLE OUTPUT
RFL - FL NEEDED FOR EXECUTION OF STRUCTURE PROGRAM
(DEFAULT OF 30000 IS SUFFICIENT FOR MOST FILES)
(USER'S FL IS RESTORED TO THE SYSTEM DEFAULT)

DEFAULT BEGIN STATEMENT
BEGIN.LGOTREE,,LGO.OUTPUT,30000.

MAX FL: 300008 (OR AS USER SPECIFIES IN THIRD PARAMETER)

REMARKS
THIS PROCEDURE USES A PROGRAM WRITTEN AT THE CONSTRUCTION
ENGINEERING RESEARCH LABORATORY (CERL) AND MODIFIED AT
DTNSRDC.

REFERENCES IN A MAIN PROGRAM TO FILES LISTED IN THE PROGRAM
STATEMENT WILL NOT GENERATE EXTERNAL REFERENCES AND,
THEREFORE, WILL NOT APPEAR IN THE CROSS-REFERENCE LISTS OR
TREE STRUCTURE. REPLACING THE PROGRAM STATEMENT WITH ONE
CONTAINING NO FILES (E.G., 'PROGRAM SAMPLE') WILL FORCE
EXTERNAL REFERENCES FOR I/O OPERATIONS WHICH WILL THEN BE
PROCESSED BY THE STRUCTURE PROGRAM.

ERROR MESSAGES
ABNORMAL TERMINATION
IF NO OTHER ERRORS LISTED, INCREASE RFL
USER-SPECIFIED (OR DEFAULT) RFL WAS NOT SUFFICIENT.
THE PROCEDURE ENDS WITH 'REVERT,ABORT'.

<OUTPUT> CONTAINS STRUCTURE OF FILE <LFN>
PROCEDURE WAS SUCCESSFUL

AUTHORS
DAVID V SOMMER - DTNSRDC CODE 1892.2 - PROCEDURE 'LGOTREE'
PETE ROTH - DTNSRDC CODE 175.2 - PROGRAM 'ANATOMY'

DATE WRITTEN: 07/06/77

DATE(S) REVISED
03/01/78 - CONVERT TO CCL
12/10/80 - CHANGE NAME FROM 'STRUCT' TO 'LGOTREE'
- USE MODIFIED STRUCT PROGRAM CALLED ANATOMY

PROCEDURE 'LIBPRO'

PURPOSE
EXECUTE A PROCEDURE ON LIBRARY 'PROCFIL' CATALOGED UNDER ANY ID

FUNCTIONAL CATEGORIES: L0 Q3

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,LIBPRO,,ID,PNAME,PARAMS.

DESCRIPTION OF PARAMETERS
ID - ID UNDER WHICH PROCEDURE LIBRARY IS CATALOGED (PFN MUST BE 'PROCFIL')
PNAME - PROCEDURE NAME
PARAMS - UP TO 18 POSITIONAL PARAMETERS FOR PROCEDURE 'PNAME'

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: DEPENDS UPON PROCEDURE BEING EXECUTED

REMARKS
ANY 'LIBRARY' STATEMENT IN EFFECT WHEN 'LIBPRO' STARTS IS CLEARED WHEN 'LIBPRO' FINISHES.

SEE 'LIBPROA' FOR ANY PROCEDURE LIBRARY.
SEE 'ANYPROS', 'MYPROS' FOR SEQUENTIAL PROCEDURE FILES.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 11/01/79

DATE(S) REVISED

PROCEDURE 'LIBPROA'

PURPOSE
   EXECUTE A PROCEDURE ON ANY CATALOGUED PROCEDURE LIBRARY

FUNCTIONAL CATEGORIES: L0 Q3

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN.LIBPROA,.PFN,ID,PNAME,PARAMS.

DESCRIPTION OF PARAMETERS
   PFN   - PERMANENT FILE NAME OF PROCEDURE FILE
   ID   - ID UNDER WHICH PFN IS CATALOGED
   PNAME   - PROCEDURE NAME
   PARAMS   - UP TO 17 POSITIONAL PARAMETERS FOR 'PNAME'

DEFAULT BEGIN STATEMENT
   NO MEANINGFUL DEFAULT VALUES

MAX FL: DEPENDS UPON PROCEDURE BEING EXECUTED

REMARKS
   ANY 'LIBRARY' STATEMENT IN EFFECT WHEN 'LIBPROA' STARTS IS
   CLEARED WHEN 'LIBPROA' FINISHES.

   SEE 'LIBPRO' IF THE PFN IS PROCFIL'.
   SEE 'ANYPROS', 'MYPROS' FOR SEQUENTIAL PROCEDURE FILES.

AUTHOR
   DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 11/01/79

DATE(S) REVISED

PROCEDURE 'LIBSET1'

PURPOSE
CREATE SIMPLE ABSOLUTE USING ONE EDITLIB LIBRARY

FUNCTIONAL CATEGORIES: L0 Q3

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN.LIBSET1,,LGO,ABS,LIB1,ID1.

DESCRIPTION OF PARAMETERS
LGO - RELOCATABLE PROGRAM
ABS - RESULTING ABSOLUTE MODULE
LIB1 - PFN OF EDITLIB USER LIBRARY
(DEFAULT: NSRDC)
ID1 - ID UNDER WHICH LIB1 IS CATALOGED
(DEFAULT: SYSTEM PUBLIC ACCESS ID)

DEFAULT BEGIN STATEMENT
BEGIN.LIBSET1..LGO,ABS.NSRDC.

MAX FL: DEPENDS ON PROGRAM BEING LOADED

REMARKS
NONE

AUTHOR
DAVID V SOMMER - D1NSRDC CODE 1892.2

DATE WRITTEN: 03/01/76

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE 'LIBSET2'

PURPOSE
CREATE SIMPLE ABSOLUTE USING TWO EDITLIB LIBRARIES

FUNCTIONAL CATEGORIES: L0 Q3

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN.LIBSET2..LGO,ABS.LIB1,ID1,LIB2,ID2.

DESCRIPTION OF PARAMETERS

LGO	- RELOCATABLE PROGRAM
ABS	- RESULTING ABSOLUTE MODULE
LIB1	- PFN OF FIRST EDITLIB USER LIBRARY (DEFAULT: NSRDC)
ID1	- ID UNDER WHICH LIB1 IS CATALOGED (DEFAULT: SYSTEM PUBLIC ACCESS ID)
LIB2	- PFN OF SECOND EDITLIB USER LIBRARY (DEFAULT: NSRDC)
ID2	- ID UNDER WHICH LIB2 IS CATALOGED (DEFAULT: SYSTEM PUBLIC ACCESS ID)

DEFAULT BEGIN STATEMENT
BEGIN.LIBSET2..LGO,ABS.NSRDC.,NSRDC.

MAX FL: DEPENDS ON PROGRAM BEING LOADED

REMARKS
NONE

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 03/01/76

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE 'LINE6'

PURPOSE
SET PRINT FILE TO 6 LINES PER INCH

FUNCTIONAL CATEGORIES: J4

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,LINE6.,OUTPUT.

DESCRIPTION OF PARAMETER
OUTPUT - LISTABLE OUTPUT

DEFAULT BEGIN STATEMENT
BEGIN,LINE6.,OUTPUT.

MAX FL: 6000B

REMARKS
USER SHOULD PRINT THE NEXT LINE AT THE TOP OF THE NEXT PAGE.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 06/07/76

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE 'LINE8'

PURPOSE
SET PRINT FILE TO 8 LINES PER INCH

FUNCTIONAL CATEGORIES: J4

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,LINE8,,OUTPUT.

DESCRIPTION OF PARAMETER
OUTPUT - LISTABLE OUTPUT

DEFAULT BEGIN STATEMENT
BEGIN,LINE8,,OUTPUT.

MAX FL: 6000B

REMARKS
USER SHOULD PRINT THE NEXT LINE AT THE TOP OF THE NEXT PAGE.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 06/07/76

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

```
PROCEDURE  'LIST'

PURPOSE
   LIST A PERMANENT FILE

FUNCTIONAL CATEGORIES:  01

COMPUTER
   CDC 6000

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN,LIST,,PFN,ID,OUTPUT,8,RTN,SHIFT,PW1,PW2,SN.

DESCRIPTION OF PARAMETERS
   PFN      - PERMANENT FILE NAME
   ID       - ID UNDER WHICH PFN IS CATALOGED
   OUTPUT   - LISTABLE OUTPUT
   8        - PRINT DENSITY
              OMITTED OR 8 - 8 LINES PER INCH
              OTHER        - 6 LINES PER INCH
   RTN      - LISTING PROGRAM DESIRED
              OMITTED - COPYSF
              OTHER   - LISTZ (IN LIBRARY 'UTILITY')
   SHIFT    - NUMBER OF COLUMNS TO SHIFT PRINTOUT (DEFAULT: 1)
              (FOR A FILE HAVING CARRIAGE CONTROL IN COLUMN 1 OF
               EACH LINE, USE 0 TO USE THOSE CARRIAGE CONTROL
               CHARACTERS)
              (SHIFT IS USED ONLY IF RTN IS OMITTED)
   PW1,PW2  - TK AND RD PASSWORDS
   SN       - SETNAME (DEFAULT: SYSSET)

DEFAULT BEGIN STATEMENT
   LIST,*,,OUTPUT,,8,,1.
      (* - USER MUST SUPPLY)

MAX FL: 33000B

REMARKS
   THIS IS SOMEWHAT LIKE THE BURROUGHS LIST COMMAND IN THAT IT
   WILL ATTACH THE FILE BEFORE LISTING IT AND RETURN IT AFTER.

EXAMPLES
   1) LIST A SEQUENTIAL SOURCE PROGRAM OR DATA FILE USING
      LISTZ:
         BEGIN,LIST,,SOURCE/MYPROG,XXXX,,,Z.

   2) LIST A DOCUMENT FILE:
         BEGIN,LIST,,DOC/MYPROG,XXXX,,0.

AUTHOR
   DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 09/25/80

DATE(S) REVISED
   02/25/81 - GENERALIZE AND ADD TO PUBLIC PROCEDURE FILE
```

PROCEDURE 'MANUAL'

PURPOSE
PRINT ONE COPY OF A MANUAL OR ITS REVISION PAGES

FUNCTIONAL CATEGORIES: 01

COMPUTER
CDC 6000

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,MANUAL.,WHICH,REV,OUTPUT,PM.

DESCRIPTION OF PARAMETERS

WHICH - NAME OF DESIRED MANUAL
CDC SERIES:
CCRM (DEFAULT)
CCIRM
CLIB
BURROUGHS SERIES:
CCBRM
CCBIRM
BLIB

REV - (CCRM, CCBRM ONLY) ONE OF:
OMITTED OR 0 - COMPLETE MANUAL
LATEST - LATEST REVISION PAGES (FASTER THAN SPECIFYING THE LATEST REVISION NUMBER)
N - A SPECIFIC REVISION NUMBER (EXTRACTS ALL REVISIONS FROM THIS ONE ON)
- (CLIB, BLIB ONLY) ONE OF:
OMITTED OR 0 - CLIB OR BLIB
M - CLIB/M OR BLIB/M
N - CLIB/N OR BLIB/N
P - CLIB/P OR BLIB/P
U - CLIB/U OR BLIB/U

OUTPUT - LISTABLE OUTPUT

PM - OUTPUT FORMAT. ONE OF:
OMITTED - LEFT-JUSTIFIED, WIDE PAPER
1T - LEFT-ADJ, PM MESSAGE GENERATED FOR 1-PART NARROW PAPER FOR REMOTE BATCH TERMINALS
PM - SAME AS 1T
C - CENTERED ON WIDE PAPER

DEFAULT BEGIN STATEMENT
BEGIN,MANUAL.,CCRM,0,OUTPUT.

MAX FL: 30000B

REMARKS
NONE

```
ERROR MESSAGES
   CCL PROCEDURE 'MANUAL' V1.2
   PM PARAMETER (<PM>) INVALID - MUST BE ONE OF:
      OMITTED (LEFT-ADJ, WIDE PAPER)
      1T      (LEFT-ADJ, PM MESSAGE GENERATED FOR
               NARROW PAPER ON REMOTE TERMINAL)
      C       (CENTERED, WIDE PAPER)

   CCL PROCEDURE 'MANUAL' V1.2
   WHICH PARAMETER (<WHICH>) INVALID - MUST BE ONE OF:
      CCBIRM - COMPUTER CENTER BURROUGHS INTRODUCTORY REFERENCE
               MANUAL
      CCBRM  - COMPUTER CENTER BURROUGHS REFERENCE MANUAL
      BLIB   - COMPUTER CENTER BURROUGHS LIBRARIES
               (REV IS ONE OF: OMITTED, M, N, P, U)
      CCIRM  - COMPUTER CENTER CDC INTRODUCTORY REFERENCE
               MANUAL
      CCRM   - COMPUTER CENTER CDC REFERENCE MANUAL
      CLIB   - COMPUTER CENTER CDC LIBRARIES
               (REV IS ONE OF: OMITTED, M, N, P, U)

EXAMPLES
   1) TO PRINT THE COMPLETE CCRM ON NARROW, UNLINED PAPER AT
      REMOTE BATCH TERMINAL 011:
         BEGIN,MANUAL,,CCRM,,OUT,1T
         ROUTE,OUT,DC=PR,TID=011,FID=*.

   2) TO PRINT THE LATEST CCRM REVISION PAGES ON NARROW,
      UNLINED PAPER AT CENTRAL SITE:
         BEGIN,MANJAL,,CCRM,LATEST,OUT.
         ROUTE,OUT DC=PR,TID=C,FID=*,FC=1T.

   3) TO PRINT CCRM, REVISION 3 ON:
         BEGIN,MANUAL,,CCRM,3.

   4) TO PRINT CCRM, ALL REVISIONS, CENTERED:
         BEGIN,MANUAL,,CCRM,1,,C.

   5) TO PRINT BLIB/N ON NARROW, UNLINED PAPER AT REMOTE
      TERMINAL 011:
         BEGIN,MANUAL,,BLIB,N,OUT,1T.
         ROUTE,OUT,DC=PR,TID=011.

AUTHOR
   DAVID V. SOMMER - DTNSRDC 1892.2

DATE WRITTEN: 08/21/79

DATE(S) REVISED
   12/09/80 - 'PM' PARAMETER EXPANDED TO ALLOW CENTERING OPTION
   01/23/81 - EXPAND TO PRINT CCLIB-SERIES AND CCBLIB-SERIES
              (REPLACES PROCEDURES 'CCLIB' AND 'CCBLIB')
   02/26/81 - CHANGE CCLIB TO CLIB, CCBLIB TO BLIB
```

PROCEDURE 'MFX'

PURPOSE
TELL INTERACTIVE USER WHICH MAINFRAME HE IS USING

FUNCTIONAL CATEGORIES: QO

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,MFX.

DEFAULT BEGIN STATEMENT
BEGIN,MFX.

MAX FL: 6000B

REMARKS
NONE

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: MID-1977

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE 'MNSRDC'

PURPOSE
EXECUTE A PROGRAM ON EDITLIB USER LIBRARY 'MNSRDC'

FUNCTIONAL CATEGORIES: LO Q3

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,MNSRDC..PROG,PARAMS.

DESCRIPTION OF PARAMETERS
PROG - PROGRAM TO BE EXECUTED
PARAMS - UP TO 19 PARAMETERS FOR 'PROG'

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAY FL: DEPENDS ON PROGRAM BEING EXECUTED

REMARKS
NONE

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 07/25/77

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE 'MYPRO'

PURPOSE
EXECUTE A PROCEDURE ON FILE 'PROCFIL' CATALOGED UNDER ANY ID

FUNCTIONAL CATEGORIES: L0 Q3

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,MYPRO.,ID,PNAME,PARAMS.

DESCRIPTION OF PARAMETERS
ID - ID UNDER WHICH PROCEDURE FILE IS CATALOGED
(PFN MUST BE 'PROCFIL')
PNAME - PROCEDURE NAME
PARAMS - UP TO 18 POSITIONAL PARAMETERS FOR PROCEDURE
'PNAME'

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: DEPENDS UPON PROCEDURE BEING EXECUTED

REMARKS
SEE 'ANYPRO' OR 'ANYPROS' FOR ANY PROCEDURE FILE.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 07/21/76

DATE(S) REVISED

PROCEDURE 'MYPROS'

PURPOSE
EXECUTE A PROCEDURE ON SEQUENTIAL FILE 'PROCFILS' CATALOGED UNDER ANY ID

FUNCTIONAL CATEGORIES: L0 Q3

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,MYPROS,,ID,PNAME,PARAMS.

DESCRIPTION OF PARAMETERS
ID - ID UNDER WHICH SEQUENTIAL PROCEDURE FILE IS CATALOGED (PFN MUST BE 'PROCFILS')
PNAME - PROCEDURE NAME
PARAMS - UP TO 18 POSITIONAL PARAMETERS FOR PROCEDURE 'PNAME'

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: DEPENDS UPON PROCEDURE BEING EXECUTED

REMARKS
SEE 'MYPRO' FOR RANDOM FILE 'PROCFIL'. 'ANYPRO' FOR ANY PROCEDURE FILE.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 03/27/78

DATE(S) REVISED

PROCEDURE 'NOGO'

PURPOSE
CREATE SIMPLE ABSOLUTE FROM RELOCATABLE

FUNCTIONAL CATEGORIES: L0 Q3

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,NOGO,,LGO,ABS.

DESCRIPTION OF PARAMETERS
LGO - RELOCATABLE PROGRAM
ABS - RESULTING ABSOLUTE MODULE
(MAY BE CATALOGED)

DEFAULT BEGIN STATEMENT
BEGIN,NOGO,,LGO,ABS.

MAX FL: DEPENDS UPON PROGRAM BEING LOADED

REMARKS
NONE

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 04/21/76

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE 'NORERUN'

PURPOSE
INSURE THAT A BATCH JOB CANNOT BE RERUN BY OPERATOR TYPE-IN

FUNCTIONAL CATEGORIES: QO

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,NORERUN.

DEFAULT BEGIN STATEMENT
BEGIN,NORERUN.

MAX FL: 4500B

REMARKS
THIS PROCEDURE WILL CATALOG AND PURGE A DUMMY FILE.

ERROR MESSAGES
SORRY - NORERUN IS FOR BATCH ONLY
TRIED TO EXECUTE PROCEDURE OUTSIDE OF BATCH

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 06/14/77

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE PAC'

PURPOSE
PURGE ALL CYCLES OF A FILE

FUNCTIONAL CATEGORIES: Q4

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,PAC,,PFN,ID,PW1,PW2,PW3,PW4,PW5,SN,UV.

DESCRIPTION OF PARAMETERS
PFN - PERMANENT FILE NAME
ID - ID
PW1-PW5 - UP TO 5 PASSWORDS
SN - SETNAME (DEFAULT: SYSSET)
UV - UNIVERSAL PASSWORD (FOR USER DEVICE SETS)

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 15000B

REMARKS
NONE

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 01/27/80

DATE(S) REVISED
02/24/81 - ADD SN AND UV PARAMETERS

PROCEDURE 'PAHC'

PURPOSE
   PURGE ALL HIGH CYCLES WHILE RETAINING LOW CYCLE

FUNCTIONAL CATEGORIES: Q4

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN.PAHC,.PFN,ID,PW1,PW2,PW3,PW4,PW5,SN,UV.

DESCRIPTION OF PARAMETERS
   PFN   - PERMANENT FILE NAME
   ID   - ID
   PW1-PW5 - UP TO 5 PASSWORDS
   SN   - SETNAME (DEFAULT: SYSSET)
   UV   - UNIVERSAL PASSWORD (FOR USER DEVICE SETS)

DEFAULT BEGIN STATEMENT
   NO MEANINGFUL DEFAULT VALUES

MAX FL: 15000B

REMARKS
   NONE

AUTHOR
   DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 01/27/80

DATE(S) REVISED
   02/24/81 - ADD SN AND UV PARAMETERS

PROCEDURE 'PALC'

PURPOSE
PURGE ALL LOW CYCLES WHILE RETAINING HIGH CYCLE

FUNCTIONAL CATEGORIES: Q4

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,PALC,,PFN,ID,PW1,PW2,PW3,PW4,PW5,SN,UV.

DESCRIPTION OF PARAMETERS
PFN - PERMANENT FILE NAME
ID - ID
PW1-PW5 - UP TO 5 PASSWORDS
SN - SETNAME (DEFAULT: SYSSET)
UV - UNIVERSAL PASSWORD (FOR USER DEVICE SETS)

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 150006

REMARKS
NONE

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 01/27/80

DATE(S) REVISED
02/24/81 - ADD SN AND UV PARAMETERS

PROCEDURE 'PFRSTOR'

PURPOSE
CREATE A FILE OF DIRECTIVES TO RESTORE PERMANENT FILES

FUNCTIONAL CATEGORIES: Q4

COMPUTER
CDC 6000

LOCATION OF PROCEDURE
PUBLIC-ACCESS PROCEDURE FILE

USAGE
BEGIN,PFRSTOR.

DEFAULT BEGIN STATEMENT
BEGIN,PFRSTOR.

MAX FL:

REMARKS
THIS PROCEDURE EXECUTES A PROGRAM WHICH WILL PROMPT THE USER FOR INFORMATION NEEDED TO CREATE A FILE OF DIRECTIVES WHICH WILL THEN BE USED BY USER SERVICES TO RESTORE PERMANENT FILES WHICH WERE PURGED BECAUSE OF LACK OF USE.

THE FILE CREATED HAS PFN=RESTORFFILES AND IS CATALOGED UNDER THE ID OF THE PERSON RUNNING THE PROCEDURE.

THE PROGRAM THIS PROCEDURE EXECUTES HAS BUILT-IN DIRECTIONS.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 04/16/80

DATE(S) REVISED

PROCEDURE 'PFTRAN1'

PURPOSE
INVOKE PFTRANS TO TRANSFER ONE FILE

FUNCTIONAL CATEGORIES: K1

COMPUTER
CDC 6000

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,PFTRAN1.,PFN,ID,CY,OUTPUT.

DESCRIPTION OF PARAMETERS
PFN - PERMANENT FILE NAME OF FILE TO BE TRANSFERRED (REQUIRED)
ID - ID UNDER WHICH PFN IS CATALOGED (REQUIRED)
CY - IF SPECIFIED - SINGLE CYCLE TO BE TRANSFERRED
IF OMITTED - ALL CYCLES ARE TRANSFERRED
OUTPUT - LISTABLE OUTPUT FROM PROGRAM PFTRANS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL:

REMARKS
IF SEVERAL FILES ARE TO BE TRANSFERRED, USE PROGRAM PFTRANS DIRECTLY.

FOR THE DOCUMENT DESCRIBING PROGRAM 'PFTRANS':
BEGIN.DOCGET,.OTHER,,PFTRANS,OUTPUT.

OUTPUT DESCRIPTION
PFTRANS LISTS THE DIRECTIVE.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2 - PROCEDURE ONLY
ROGER YEARICK - DTNSRDC CODE 1892.3 - PROGRAM PFTRANS

DATE WRITTEN: 10/12/79

DATE(S) REVISED
03/05/80 - REMOVE TEST FOR PRESENCE OF PF/ID

PROCEDURE 'PGMTAPE'

PURPOSE
   EXTRACT A SOURCE PROGRAM FROM TAPE

FUNCTIONAL CATEGORIES: Q6

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN,PGMTAPE,,LIB,PGM,OUTFILE,CST.

DESCRIPTION OF PARAMETERS
   LIB   - LIBRARY (ONE OF: BIMED, NSRDC (DEFAULT),
              SSP)
   PGM   - PROGRAM DESIRED
   OUTFILE - FILE TO CONTAIN SOURCE PROGRAM
   CST   - TYPE OF FILE DESIRED
              C - COMPILE FILE (UPDATE,C=OUTFILE)
              S - SOURCE FILE   (UPDATE,S=OUTFILE)
              T - SOURCE FILE   (UPDATE T=OUTFILE)

DEFAULT BEGIN STATEMENT
   BEGIN,PGMTAPE,,NSRDC,*,COMPILE,C.
      (* - USER MUST SUPPLY)

MAX FL: 42000B

REMARKS
   THIS IS A BATCH-ONLY PROCEDURE. THE JOB CARD MUST SPECIFY
   MT1. THE PROCEDURE WILL SUPPLY THE LABEL CARD.

ERROR MESSAGES
   NO PROGRAM REQUESTED
      PARAMETER 'PGM' WAS OMITTED.

   PGMTAPE REQUIRES A TAPE AND MUST BE RUN FROM BATCH
      USER TRIED TO EXECUTE PGMTAPE FROM INTERCOM.

   UNKNOWN LIBRARY (<LIB>)
      INDICATED LIBRARY NAME IS NOT SUPPORTED.

EXAMPLE
   GET SOURCE PROGRAM FOR PROGRAM 'CMPINV' IN LIBRARY 'NSRDC':

      JOBNAME,MT1.
      CHARGE,....
      BEGIN,PGMTAPE,,,CMPINV,FILE.

   LFN 'FILE' CONTAINS A COMPILE FILE COPY OF 'CMPINV'.

AUTHOR
   DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 08/24/77

DATE(S) REVISED
   03/01/78 - CONVERT TO CCL

PROCEDURE 'PHC'

PURPOSE
PURGE HIGH CYCLE WHILE RETAINING LOW CYCLE

FUNCTIONAL CATEGORIES: Q4

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,PHC,,PFN,ID,PW1,PW2,PW3,PW4,PW5,SN,UV.

DESCRIPTION OF PARAMETERS
PFN - PERMANENT FILE NAME
ID - ID
PW1-PW5 - PASSWORDS
SN - SETNAME (DEFAULT: SYSSET)
UV - UNIVERSAL PASSWORD (FOR USER DEVICE SETS)

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 150C0B

REMARKS
NONE

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 01/27/80

DATE(S) REVISED
02/24/81 - ADD SN AND UV PARAMETERS

PROCEDURE 'PLC'

PURPOSE
PURGE LOW CYCLE WHILE RETAINING HIGH CYCLE

FUNCTIONAL CATEGORIES: Q4

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,PLC.,PFN,ID,PW1,PW2,PW3,PW4,PW5,SN,UV.

DESCRIPTION OF PARAMETERS
PFN - PERMANENT FILE NAME
ID - ID
PW1-PW5 - PASSWORDS
SN - SETNAME (DEFAULT: SYSSET)
UV - UNIVERSAL PASSWORD (FOR USER DEVICE SETS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 15000B

REMARKS
NONE

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 01/27/80

DATE(S) REVISED
02/24/81 - ADD SN AND UV PARAMETERS

PROCEDURE 'PM'

PURPOSE
CREATE CERTAIN PRINT MESSAGE (PM) RECORDS

FUNCTIONAL CATEGORIES: J4

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,PM,,FC,OUTPUT,PM1,PM2,PM3,PM4,PM5,PM6.

DESCRIPTION OF PARAMETERS
FC - FORMS CODE
OMITTED - PM RESTORE PRINTER
1T - PM 1-PART NARROW UNLINED PAPER
'OTHER' - PM PM1 PM2 PM3 PM4 PM5 PM6
(USER MAY CREATE A MESSAGE OF UP TO
6 WORDS (30 CHARACTERS MAX)
OUTPUT - LISTABLE OUTPUT
PM1-PM6 - UP TO 6 WORDS FOR USER-SPECIFIED PM MESSAGE
(USED ONLY WHEN FC=OTHER)

DEFAULT BEGIN STATEMENT
BEGIN,PM,,,OUTPUT.

MAX FL: 6000B

REMARKS
BE SURE 'BEGIN,PM,,,OUTPUT.' HAS BEEN EXECUTED TO RESTORE
PRINTER BEFORE ROUTING OUTPUT TO BE PRINTED.

PM MESSAGES ARE IGNORED AT CENTRAL SITE. USE FC= ON ROUTE
COMMAND.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 07/30/76

DATE(S) REVISED
11/19/76 - ADD 'OTHER' OPTION
03/01/78 - CONVERT TO CCL

PROCEDURE 'PROADD'

PURPOSE
ADD ONE PROCEDURE TO A SEQUENTIAL PROCEDURE FILE

FUNCTIONAL CATEGORIES: Q7

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,PROADD,,ID,NEW,AC,PW1,PW2,PW3,PW4,PW5.

DESCRIPTION OF PARAMETERS
ID - ID UNDER WHICH PROCEDURE FILE IS CATALOGED (PFN IS 'PROCFILS')
NEW - FILE CONTAINING NEW NAMED PROCEDURE (MAY NOT BE FILE 'INPUT')
AC - AC FOR CATALOG (MAY BE OMITTED)
PW1-PW5 - PASSWORDS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 36000B

REMARKS
PROCEDURE FILE IS A SEQUENTIAL FILE OF NAMED PROCEDURES ARRANGED IN ALPHABETICAL ORDER. EACH PROCEDURE CONSISTS OF ONE AND ONLY ONE SYSTEM LOGICAL RECORD.

ALL EMPTY RECORDS ARE REMOVED.

THE LOWEST CYCLE IS PURGED, IF POSSIBLE. AT LEAST 2 CYCLES ARE ALWAYS RETAINED.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 05/28/76

DATE(S) REVISED
03/01/78 - CONVERT TO CCL; INCREASE TO 5 PASSWORDS

PROCEDURE 'PROALL'

PURPOSE
LIST PROCEDURE NAMES, PROCEDURE HEADERS AND THE PROCEDURES IN A SEQUENTIAL PROCEDURE FILE (COMBINES PRONAM, PROHDR AND PROLIST)

FUNCTIONAL CATEGORIES: 01

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,PROALL,,ID,OUTPUT,LEFT,PW1,PW2,PW3,PW4,PW5.

DESCRIPTION OF PARAMETERS
ID - ID UNDER WHICH THE PROCEDURE FILE IS CATALOGED (PFN IS 'PROCFILS')
OUTPUT - LISTABLE OUTPUT
LEFT - OMITTED - PRINT LEFT-JUSTIFIED ON PAGE
NON-BLANK - PRINT CENTERED ON WIDE PAGE
PW1-PW5 - PASSWORDS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 36000B

REMARKS
A BANNER PAGE PRECEDES THE LIST AND CONTAINS THE WORD 'PROCFILS' AND THE SPECIFIED ID. A BANNER PAGE WITH THE WORD 'END' FOLLOWS THE LIST.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 06/02/76

DATE(S) REVISED
02/10/77 - ADD PARAMETER 'LEFT'
03/01/78 - CONVERT TO CCL: ADD 5 PASSWORDS

PROCEDURE 'PRODELE'

PURPOSE
DELETE ONE PROCEDURE FROM A SEQUENTIAL PROCEDURE FILE

FUNCTIONAL CATEGORIES: Q7

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,PRODELE.,ID,PROCED,AC,PW1,PW2,PW3,PW4,PW5.

DESCRIPTION OF PARAMETERS
ID - ID UNDER WHICH PROCEDURE FILE IS CATALOGED (PFN IS 'PROCFILS')
PROCED - PROCEDURE TO BE DELETED
AC - AC FOR CATALOG (MAY BE OMITTED)
PW1-PW5 - PASSWORDS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 360008

REMARKS
PROCEDURE FILE IS A SEQUENTIAL FILE OF NAMED PROCEDURES ARRANGED IN ALPHABETICAL ORDER. EACH PROCEDURE CONSISTS OF ONE AND ONLY ONE SYSTEM LOGICAL RECORD.

ALL EMPTY RECORDS ARE REMOVED.

THE LOWEST CYCLE IS PURGED, IF POSSIBLE. AT LEAST 2 CYCLES ARE ALWAYS RETAINED.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 05/28/76

DATE(S) REVISED
03/01/78 - CONVERT TO CCL: INCREASE TO 5 PASSWORDS

PROCEDURE 'PRODOC'

PURPOSE
LIST DOCUMENTATION FOR PROCEDURES PROADD, PROALL, PRODELE, PRODOC, PROGET, PROHDR, PROLIST, PRONAM, PROREPL, PROS2R

FUNCTIONAL CATEGORIES: 01

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,PRODOC,,OUTPUT,LEFT.

DESCRIPTION OF PARAMETERS
OUTPUT - LISTABLE OUTPUT
LEFT - OMITTED - PRINT LEFT-JUSTIFIED ON PAGE
NON-BLANK - PRINT CENTERED ON WIDE PAGE

DEFAULT BEGIN STATEMENT
BEGIN,PRODOC,,OUTPUT.

MAX FL: 25000B

REMARKS
A BANNER PAGE PRECEDES THE LIST AND CONTAINS THE WORD 'PRODOC'. A BANNER PAGE WITH THE WORD 'END' FOLLOWS THE LIST.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 06/02/76

DATE(S) REVISED
02/10/77 - ADD PARAMETER 'LEFT'
03/01/78 - CONVERT TO CCL; ADD PROS2R DOCUMENT

PROCEDURE 'PROGET'

PURPOSE
GET (EXTRACT) ONE PROCEDURE FROM A SEQUENTIAL PROCEDURE FILE

FUNCTIONAL CATEGORIES: Q7

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,PROGET,,ID,PROCED,LFN,PW1,PW2,PW3,PW4,PW5.

DESCRIPTION OF PARAMETERS
ID - ID UNDER WHICH PROCEDURE FILE IS CATALOGED (PFN IS 'PROCFILS')
PROCED - NAME OF DESIRED PROCEDURE
LFN - NAME OF FILE TO CONTAIN 'PROCED'
PW1-PW5 - PASSWORDS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 36000B

REMARKS
PROCEDURE FILE IS A SEQUENTIAL FILE OF NAMED PROCEDURES ARRANGED IN ALPHABETICAL ORDER. EACH PROCEDURE CONSISTS OF ONE AND ONLY ONE SYSTEM LOGICAL RECORD.

AUTHOR
DAVID \ SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 05/28/76

DATE(S) REVISED
02/04/77 - ADD PW1 AND PW2
03/01/78 - CONVERT TO CCL; INCREASE TO 5 PASSWORDS

PROCEDURE 'PROGRAM'

PURPOSE
EXECUTE A CATALOGED PROGRAM (NOT IN A LIBRARY)

FUNCTIONAL CATEGORIES: L0 Q3

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,PROGRAM,,PFN,ID,PARAMS.

DESCRIPTION OF PARAMETERS
PFN - PERMANENT FILE NAME OF THE PROGRAM
ID - ID UNDER WHICH IT IS CATALOGED
(DEFAULT: SYSTEM PUBLIC ACCESS ID)
PARAMS - UP TO 18 PARAMETERS FOR THE PROGRAM

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: DEPENDS UPON PROGRAM BEING EXECUTED

REMARKS
<PFN> IS ATTACHED WITH LFN 'ZZZPROG' AND IS RETURNED AT THE END OF THE PROCEDURE.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 09/14/76

DATE(S) REVISED
03/01/78 - CONVERT TO CCL; ADD 5 PASSWORDS

PROCEDURE 'PROHDR'

PURPOSE
LIST PROCEDURE HEADERS IN A PROCEDURE FILE

FUNCTIONAL CATEGORIES: Q7

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,PROHDR,,ID,OUTPUT,PW1,PW2,PW3,PW4,PW5.

DESCRIPTION OF PARAMETERS
ID - ID UNDER WHICH PROCEDURE FILE IS CATALOGED
(PFN IS 'PROCFILS')
OUTPUT - LISTABLE OUTPUT
PW1-PW5 - PASSWORDS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 360006

REMARKS
PROCEDURE FILE IS A SEQUENTIAL FILE OF NAMED PROCEDURES ARRANGED IN ALPHABETICAL ORDER. EACH PROCEDURE CONSISTS OF ONE AND ONLY ONE SYSTEM LOGICAL RECORD.

ALL EMPTY RECORDS ARE FLAGGED IN THE LIST.

AUTHOR
DAVID V SUMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 05/28/76

DATE(S) REVISED
03/01/78 - CONVERT TO CCL; ADD 5 PASSWORDS

PROCEDURE 'PROLIST'

PURPOSE
   LIST PROCEDURE(S) IN A SEQUENTIAL PROCEDURE FILE

FUNCTIONAL CATEGORIES: 01

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN.PROLIST,,ID.OUTPUT,PROCED,PW1,PW2,PW3,PW4,PW5.

DESCRIPTION OF PARAMETERS
   ID   - ID UNDER WHICH PROCEDURE FILE IS CATALOGED
              (PFN IS 'PROCFILS')
   OUTPUT   - LISTABLE OUTPUT
   PROCED   - NAME OF PROCEDURE TO BE LISTED
              (IF OMITTED OR 'ALL', ALL PROCEDURES ARE LISTED)
   PW1-PW5 - PASSWORDS

DEFAULT BEGIN STATEMENT
   NO MEANINGFUL DEFAULT VALUES

MAX FL: 36000B

REMARKS
   PROCEDURE FILE IS A SEQUENTIAL FILE OF NAMED PROCEDURES
   ARRANGED IN ALPHABETICAL ORDER. EACH PROCEDURE CONSISTS OF
   ONE AND ONLY ONE SYSTEM LOGICAL RECORD.

   ALL EMPTY RECORDS ARE FLAGGED IN THE LIST.

AUTHOR
   DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 05/28/76

DATE(S) REVISED
   03/01/78 - CONVERT TO CCL: ADD 5 PASSWORDS

PROCEDURE 'PRONAM'

PURPOSE
LIST NAMES OF PROCEDURES IN A SEQUENTIAL PROCEDURE FILE

FUNCTIONAL CATEGORIES: Q7

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,PRONAM,,ID,OUTPUT,FULL,PW1,PW2,PW3,PW4,PW5.

DESCRIPTION OF PARAMETERS
ID - ID UNDER WHICH PROCEDURE FILE IS CATALOGED (PFN IS 'PROCFILS')
OUTPUT - LISTABLE OUTPUT
FULL - IF OMITTED, A FULL LIST WITH HEADINGS IS PRINTED. IF ANYTHING IS SPECIFIED, A QUICK, SINGLE-COLUMN LIST, WITHOUT HEADINGS, IS PROVIDED. THIS MAY BE MORE USEFUL AT AN INTERACTIVE TERMINAL.
PW1-PW5 - PASSWORDS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 36000B

REMARKS
PROCEDURE FILE IS A SEQUENTIAL FILE OF NAMED PROCEDURES ARRANGED IN ALPHABETICAL ORDER. EACH PROCEDURE CONSISTS OF ONE AND ONLY ONE SYSTEM LOGICAL RECORD.

ALL EMPTY RECORDS ARE FLAGGED IN THE LIST.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 05/28/76

DATE(S) REVISED
03/01/78 - CONVERT TO CCL: ADD 5 PASSWORDS

PROCEDURE 'PROREPL'

PURPOSE
REPLACE ONE PROCEDURE IN A SEQUENTIAL PROCEDURE FILE

FUNCTIONAL CATEGORIES: Q7

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,PROREPL,,ID,NEW,AC,PW1,PW2,PW3,PW4,PW5.

DESCRIPTION OF PARAMETERS
ID - ID UNDER WHICH PROCEDURE FILE IS CATALOGED (PFN IS 'PROCFILS')
NEW - FILE CONTAINING NEW NAMED PROCEDURE (MAY NOT BE FILE 'INPUT')
AC - AC FOR CATALOG (MAY BE OMITTED)
PW1-PW5 - PASSWORDS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 36000B

REMARKS
PROCEDURE FILE IS A SEQUENTIAL FILE OF NAMED PROCEDURES ARRANGED IN ALPHABETICAL ORDER. EACH PROCEDURE CONSISTS OF ONE AND ONLY ONE SYSTEM LOGICAL RECORD.

ALL EMPTY RECORDS ARE REMOVED.

THE LOWEST CYCLE IS PURGED, IF POSSIBLE. AT LEAST 2 CYCLES ARE ALWAYS RETAINED.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 05/28/76

DATE(S) REVISED
03/01/78 - CONVERT TO CCL; INCREASE TO 5 PASSWORDS

PROCEDURE 'PROS2R'

PURPOSE
CONVERT SEQUENTIAL PROCEDURE FILE TO RANDOM EDITLIB USER LIBRARY

FUNCTIONAL CATEGORIES: K3 Q7

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN.PROS2R,.IDS,IDR,AC,PW1,.PW2,PW3,PW4,PW5.

DESCRIPTION OF PARAMETERS

IDS	-	ID UNDER WHICH SEQUENTIAL FILE 'PROCFILS' IS CATALOGED
IDR	-	ID UNDER WHICH RANDOM FILE 'PROCFIL' IS TO BE CATALOGED
AC	-	JOB ORDER NUMBER FOR CATALOG (MAY BE OMITTED)
PW1-PW5	-	PASSWORDS FOR RANDOM FILE (WILL HAVE EFFECT ONLY IF AT LEAST ONE CYCLE OF RANDOM FILE 'PROCFIL' EXISTS BEFORE PROS2R IS EXECUTED)

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL:

REMARKS
PFN OF SEQUENTIAL FILE MUST BE 'PROCFILS'.
PFN OF RANDOM FILE WILL BE 'PROCFIL'.
LOWEST CYCLE OF 'PROCFIL' WILL BE PURGED, IF POSSIBLE.
AT LEAST 2 CYCLES WILL ALWAYS BE RETAINED.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 03/27/78

DATE(S) REVISED

PROCEDURE 'PURGALL'

PURPOSE
PURGE PERMANENT FILES OF SPECIFIED AC AND ID (PUBLIC FILES OR ON A USER DEVICE SET)

FUNCTIONAL CATEGORIES: Q4

COMPUTER
CDC 6000

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,PURGALL,,JOBORDER,ID,OUTPUT,PW1,PW2,PW3,PW4,PW5,SN.

DESCRIPTION OF PARAMETERS
JOBORDER - JOB ORDER NUMBER (MUST BE SPECIFIED)
ID - ID OF FILES TO BE PURGED (MUST BE SPECIFIED)
OUTPUT - LISTABLE OUTPUT
PW1-PW5 - UP TO 5 PASSWORDS FOR ALL FILES TO BE PURGED (ONLY TK, RD AND CN PASSWORDS ARE REQUIRED)
SN - SETNAME. ONE OF:
OMITTED - PUBLIC PERMANENT FILES
OTHER - SETNAME OF A USER DEVICE SET

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 35000B

REMARKS
1) PROCEDURE WILL AUDIT SPECIFIED ID AND JOBORDER. ALL THESE FILES WILL BE PURGED.
2) INVALID TK, RD, CN PASSWORDS WILL ABORT THE PROCEDURE.
3) CHARGE ID OR ACCESS NUMBER MUST CORRESPOND TO ID AND AC BEING PURGED.
4) THE USER MUST SUPPLY THE MOUNT CARD WHEN PURGING ON A USER DEVICE SET.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2
SHARON GOOD - DTNSRDC CODE 1892.1

DATE WRITTEN: 03/15/79

DATE(S) REVISED
06/16/80 - ADD SN PARAMETER

PROCEDURE 'PURGEN'

PURPOSE
GENERATE PROCEDURE 'PUR' TO PURGE SEVERAL FILES WITH COMMON KERNEL

FUNCTIONAL CATEGORIES: Q4

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,PURGEN,,KERNEL,ID,PW1,PW2,PW3,PW4,PW5,UV,SN.

DESCRIPTION OF PARAMETERS
KERNEL - FIRST N CHARACTERS OF PERM FILE NAME (COULD BE EMPTY)
ID - ID OF FILES TO BE PURGED
PW1-PW5 - UP TO 5 PASSWORDS FOR ALL FILES TO BE PURGED (ONLY TK AND CN PASSWORDS ARE REQUIRED)
UV - UNIVERSAL PURGE PASSWORD IF REQUIRED
SN - SETNAME (ONLY IF OTHER THAN SYSSET)

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT

MAX FL: 35000B

REMARKS
1) GENERATES PROCEDURE PUR TO BE USED FOR PURGING SEVERAL FILES OF SAME ID AND PASSWORDS. ALLOWS COMMON KERNEL FOR START OF PERM FILE NAMES. WILL ATTEMPT TO EXECUTE 'PUR' ONCE TO PURGE THE KERNEL FILE NAME, LOWEST CYCLE.

2) USAGE TO PURGE ADDITIONAL FILES:
PUR,<PART>..

EXAMPLE
DESIRE TO PURGE A SET OF FILES INCLUDING: CARRIERDATA1, CARRIERDATA2, CARRIERPL, CARRIEROBJ, CARRIERSOR, BELONGING TO USER 'CZZZ' WITH PASSWORD 'FIR' OR 'SEC' OR NO PASSWORD.
1) BEGIN,PURGEN,,CARRIER,CZZZ,FIR,SEC.
WILL ATTEMPT TO PURGE THE KERNEL FILE NAMED CARRIER.
2) PUR,DATA1.
PUR,DATA2.
PUR,PL.
PUR,OBJ.
PUR,SOR. TO PURGE THE ACTUAL FILES

AUTHOR
SHARON E GOOD - DTNSRDC CODE 1892.1

DATE WRITTEN: 09/12/80

DATE(S) REVISED
02/10/81 - ADD UV, SN PARAMETERS

PROCEDURE 'RECADD1'

PURPOSE
ADD ONE OR MORE LOGICAL RECORDS TO A FILE

FUNCTIONAL CATEGORIES: K1

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,RECADD1,,AFTER,NREC,NEW,PFN,ID,AC,PW1,PW2,PW3,PW4,PW5.

DESCRIPTION OF PARAMETERS
AFTER - RECORD NUMBER AFTER WHICH THE NEW RECORD(S) ARE TO BE ADDED
NREC - NUMBER OF NEW LOGICAL RECORDS TO BE ADDED (DEFAULT: 1)
NEW - LFN OF FILE CONTAINING NEW RECORD(S)
PFN - PERMANENT FILE NAME
ID - ID UNDER WHICH FILE IS CATALOGED
AC - JOB ORDER NUMBER FOR NEW CATALOG (MAY BE OMITTED)
PW1-PW5 - PASSWORDS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 20000B

REMARKS
REPLACES PROCEDURE RECADD.

THE LOWEST CYCLE OF FILE IS PURGED. IF POSSIBLE. AT LEAST 2 CYCLES ARE ALWAYS RETAINED.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 04/28/78

DATE(S) REVISED

PROCEDURE 'RECDEL1'

PURPOSE
DELETE ONE OR MORE LOGICAL RECORDS FROM A FILE

FUNCTIONAL CATEGORIES: K1

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,RECDEL1,,REC,NREC,PFN,ID,AC,PW1,PW2,PW3,PW4,PW5.

DESCRIPTION OF PARAMETERS

REC	- RECORD NUMBER OF FIRST/ONLY LOCIGAL RECORD TO BE DELETED
NREC	- NUMBER OF LOGICAL RECORDS TO BE DELETED (DEFAULT: 1)
PFN	- PERMANENT FILE NAME
ID	- ID UNDER WHICH FILE IS CATALOGED
AC	- JOB ORDER NUMBER FOR NEW CATALOG (MAY BE OMITTED)
PW1-PW5	- PASSWORDS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 20000B

REMARKS
REPLACES PROCEDURE RECDELE.

THE LOWEST CYCLE OF FILE IS PURGED, IF POSSIBLE. AT LEAST 2 CYCLES ARE ALWAYS RETAINED.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 04/28/78

DATE(S) REVISED

PROCEDURE 'RECDOC'

PURPOSE
LIST DOCUMENTATION FOR PROCEDURES RECADD1, RECDEL1, RECDOC, RECGET1, RECREP1

FUNCTIONAL CATEGORIES: 01

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,RECDOC,,OUTPUT,LEFT.

DESCRIPTION OF PARAMETERS
OUTPUT - LISTABLE OUTPUT
LEFT - OMITTED - PRINT LEFT-JUSTIFIED ON PAGE
NON-BLANK - PRINT CENTERED ON WIDE PAGE

DEFAULT BEGIN STATEMENT
BEGIN.RECDOC,,OUTPUT.

MAX FL: 250006

REMARKS
A BANNER PAGE PRECEDES THE LIST AND CONTAINS THE WORD 'RECDOC'. A BANNER PAGE WITH THE WORD 'END' FOLLOWS THE LIST.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 02/10/77

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE 'RECGET1'

PURPOSE
EXTRACT ONE OR MORE LOGICAL RECORDS FROM A FILE

FUNCTIONAL CATEGORIES: K1

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,RECGET1,,REC,NREC,PFN,ID,PW1,PW2,PW3,PW4,PW5.

DESCRIPTION OF PARAMETERS

REC	- RECORD NUMBER OF FIRST/ONLY LOCIGAL RECORD TO BE EXTRACTED
NREC	- NUMBER OF LOGICAL RECORDS TO BE EXTRACTED (DEFAULT: 1)
PFN	- PERMANENT FILE NAME
ID	- ID UNDER WHICH FILE IS CATALOGED
PW1-PW5	- PASSWORDS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 200008

REMARKS
REPLACES PROCEDURE RECGET.

THE EXTRACTED RECORD(S) WILL BE ON A FILE WITH LFN OF R FOLLOWED BY THE VALUE OF REC (E.G., BEGIN,RECGET,,8,.... WILL CREATE FILE R8. THIS FILE MAY BE CATALOGED. IT IS NOT REWOUND AT THE END OF THE PROCEDURE.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 04/28/78

DATE(S) REVISED

PROCEDURE 'RECREP1'

PURPOSE
REPLACE ONE OR MORE LOGICAL RECORDS IN A FILE

FUNCTIONAL CATEGORIES: K1

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,RECREP1,,REC,NREC,NEW.PFN.ID,AC,PW1,PW2.PW3.PW4,PW5.

DESCRIPTION OF PARAMETERS

REC	- RECORD NUMBER OF FIRST/ONLY LOCIGAL RECORD TO BE REPLACED
NREC	- NUMBER OF LOGICAL RECORDS TO BE REPLACED (DEFAULT: 1)
NEW	- LFN OF FILE CONTAINING NEW RECORD(S)
PFN	- PERMANENT FILE NAME
ID	- ID UNDER WHICH FILE IS CATALOGED
AC	- JOB ORDER NUMBER FOR NEW CATALOG (MAY BE OMITTED)
PW1-PW5	- PASSWORDS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 20000B

REMARKS
REPLACES PROCEDURE RECREPL.

THE LOWEST CYCLE OF FILE IS PURGED. IF POSSIBLE. AT LEAST 2 CYCLES ARE ALWAYS RETAINED.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 04/28/78

DATE(S) REVISED

PROCEDURE 'RENAMAC'

PURPOSE
RENAME AC FIELD ON PERMANENT FILES

FUNCTIONAL CATEGORIES: Q4

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,RENAMAC,,OLD,NEW,ID,OUTPUT,PW1,PW2,PW3,PW4,PW5,SN.

DESCRIPTION OF PARAMETERS
OLD - OLD AC (MUST BE SPECIFIED)
NEW - NEW AC (MUST BE SPECIFIED)
ID - ID OF FILES TO BE RENAMED (MUST BE SPECIFIED)
OUTPUT - LISTABLE OUTPUT
PW1-PW5 - UP TO 5 PASSWORDS FOR ALL FILES TO BE RENAMED
(ONLY TK, RD AND CN PASSWORDS ARE REQUIRED)
SN - SETNAME (DEFAULT: SYSSET)

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 350005

REMARKS
1) PROCEDURE WILL AUDIT SPECIFIED ID AND OLD AC. ALL THESE FILES WILL BE RENAMED.
2) MOST PF ATTACH AND RENAME ERRORS WILL NOT BE FATAL. INVALID TK, RD PASSWORDS WILL ABORT THE PROCEDURE.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 06/01/75

DATE(S) REVISED
04/18/77 - MODIFY FOR NOS/BE SHORT AUDIT
09/30/77 - ADD TYPE PARAMETER
03/01/78 - CONVERT TO CCL
10/01/78 - NEW AUDIT FORMAT: DEACTIVATE ID PARAMETER
11/02/78 - REACTIVATE ID PARAMETER
? - REMOVE TYPE PARAMETER
08/28/80 - TERMINATE PROCEDURE IF OLD AND NEW ARE THE SAME
02/24/81 - ADD SN PARAMETER

```
PROCEDURE 'RUNBAS'

PURPOSE
   COMPILE AND EXECUTE BASIC PROGRAM (SIMILAR TO EDITOR RUN,BAS
   FOR USE OUTSIDE OF EDITOR)

FUNCTIONAL CATEGORIES:  L2

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN.RUNBAS.,F.OUT.

DESCRIPTION OF PARAMETERS
   F   - INPUT SOURCE FILE (REWOUND BEFORE COMPILE)
   OUT - LISTABLE OUTPUT (NOT REWOUND)
         (IF OUT=0, NO LIST IS PROVIDED. ERROR MESSAGES PRINT
         AT TERMINAL)

DEFAULT BEGIN STATEMENT
   BEGIN.RUNBAS..*.OUT.
      (* - NO DEFAULT)

MAX FL: 40000B

REMARKS
   INPUT AND OUTPUT ARE CONNECTED BEFORE THE BASIC COMPILER
   IS CALLED.

ERROR MESSAGES
   NO INPUT FILE.
      USER DID NOT SPECIFY AN INPUT FILE (PARAMETER 'F')

AUTHOR
   DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 08/25/77

DATE(S) REVISED
   03/01/78 - CONVERT TO CCL
```

PROCEDURE 'RUNFTN'

PURPOSE
COMPILE AND EXECUTE FTN PROGRAM (SIMILAR TO EDITOR RUN,FTN FOR USE OUTSIDE OF EDITOR)

FUNCTIONAL CATEGORIES: L2

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN.RUNFTN,,F,LGO.

DESCRIPTION OF PARAMETERS
F - FILE TO BE COMPILED
(MUST BE SPECIFIED - AVOID LFN 'INPUT')
LGO - FILE TO CONTAIN RELOCATABLE OBJECT MODULE

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: THAT OF THE CURRENT FTN COMPILER

REMARKS
AFTER COMPLETION, INPUT AND OUTPUT ARE CONNECTED.

ERROR MESSAGES
NO INPUT FILE.
USER DID NOT SPECIFY AN INPUT FILE (PARAMETER 'F')

AUTHOR
SHARON E GOOD - DTNSRDC CODE 1892.1

DATE WRITTEN: 07/27/77

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE 'RUNMNF'

PURPOSE
COMPILE AND EXECUTE MNF PROGRAM UNDER INTERCOM

FUNCTIONAL CATEGORIES: L2

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,RUNMNF,,F.

DESCRIPTION OF PARAMETER
F - FILE TO BE COMPILED
(MUST BE SPECIFIED - AVOID LFN 'INPUT')

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 53000B MINIMUM (NO EFL NEEDED)

REMARKS
BEFORE USING RUNMNF, ATTACH OR CREATE A SOURCE INPUT FILE 'F' (NETED OR EDITOR MAY BE USED TO CREATE IT).

'F' IS REWOUND BY THE PROCEDURE BEFORE COMPILATION.

INPUT AND OUTPUT ARE AUTOMATICALLY CONNECTED WHEN EXECUTION BEGINS. AFTER COMPLETION, INPUT AND OUTPUT REMAIN CONNECTED.

TO RE-EXECUTE PROGRAM 'F', DO ANOTHER BEGIN,RUNMNF,,....

ERROR MESSAGES
NO INPUT FILE.
USER DID NOT SPECIFY AN INPUT FILE (PARAMETER 'F')

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 07/29/77

DATE(S) REVISED
08/24/77
09/24/77
03/01/78 - CONVERT TO CCL

PROCEDURE 'RUNPAS'

PURPOSE
COMPILE AND EXECUTE PASCAL PROGRAM UNDER INTERCOM

FUNCTIONAL CATEGORIES: L2

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,RUNPAS,,F,OUT.

DESCRIPTION OF PARAMETERS
F - FILE TO BE COMPILED
(MUST BE SPECIFIED - AVOID LFN 'INPUT')
OUT - FILE TO CONTAIN COMPILATION LISTING
(RETAINED ONLY IF COMPILATION FAILS)

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL:

REMARKS
BEFORE USING RUNPAS, ATTACH OR CREATE A SOURCE INPUT FILE 'F' (NETED OR EDITOR MAY BE USED TO CREATE IT).

'F' IS REWOUND BY THE PROCEDURE BEFORE COMPILATION.

TO RE-EXECUTE PROGRAM 'F', TYPE 'LGO'.

ERROR MESSAGES
FILE <OUT> HAS THE COMPILATION LISTING
COMPILATION FAILED. USE NETED OR EDITOR OR ROUTE TO A PRINTER TO FIND THE ERRORS.

NO INPUT FILE.
USER DID NOT SPECIFY AN INPUT FILE (PARAMETER 'F')

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 1979

DATE(S) REVISED

PROCEDURE 'RUNSEQ'

PURPOSE
COMPILE AND EXECUTE FTN,SEQ PROGRAM (USES TS OPTION)

FUNCTIONAL CATEGORIES: L2

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,RUNSEQ,,F,LGO.

DESCRIPTION OF PARAMETERS
F - FILE TO BE COMPILED
(MUST BE SPECIFIED - AVOID LFN 'INPUT')
LGO - FILE TO CONTAIN RELOCATABLE OBJECT MODULE

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: THAT OF THE CURRENT FTN COMPILER

REMARKS
THIS PROCEDURE IS FOR FORTRAN SOURCE PROGRAMS IN SEQUENCED MODE.

FOR TS OPTION FOR STANDARD FORMATTED FTN SOURCE CODE, USE 'RUNTS'.

AFTER COMPLETION, INPUT AND OUTPUT ARE CONNECTED.

ERROR MESSAGES
NO INPUT FILE.
USER DID NOT SPECIFY AN INPUT FILE (PARAMETER 'F')

AUTHOR
SHARON E GOOD - DTNSRDC CODE 1892.1

DATE WRITTEN: 07/27/77

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE 'RUNTS'

PURPOSE
   COMPILE AND EXECUTE FTN,TS PROGRAM

FUNCTIONAL CATEGORIES: L2

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN,RUNTS,,F,LGO.

DESCRIPTION OF PARAMETERS
   F   - FILE TO BE COMPILED
              (MUST BE SPECIFIED - AVOID LFN 'INPUT')
   LGO   - FILE TO CONTAIN RELOCATABLE OBJECT MODULE

DEFAULT BEGIN STATEMENT
   NO MEANINGFUL DEFAULT VALUES

MAX FL: THAT OF THE CURRENT FTN COMPILER

REMARKS
   AFTER COMPLETION. INPUT AND OUTPUT ARE CONNECTED.

ERROR MESSAGES
   NO INPUT FILE.
      USER DID NOT SPECIFY AN INPUT FILE (PARAMETER 'F')

AUTHOR
   SHARON E GOOD - DTNSRDC CODE 1892.1

DATE WRITTEN: 07/27/77

DATE(S) REVISED
   03/01/78 - CONVERT TO CCL

PROCEDURE 'SEGLD'

PURPOSE
CREATE A SEGLOAD ABSOLUTE FILE

FUNCTIONAL CATEGORIES: L0 Q3

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,SEGLD,,SEGDIR,LGO,ABS.

DESCRIPTION OF PARAMETERS
SEGDIR - FILE CONTAINING SEGLOAD DIRECTIVES
(REWOUND BEFORE USE)
LGO - RELOCATABLE OBJECT FILE
ABS - ABSOLUTE OBJECT FILE
(MAY BE CATALOGED)

DEFAULT BEGIN STATEMENT
BEGIN,SEGLD,,SEGDIR,LGO,ABS.

MAX FL: DEPENDS UPON PROGRAM BEING LOADED

REMARKS
NONE

AUTHOR
SHARON E GOOD - DTNSRDC CODE 1892.1

DATE WRITTEN: 01/16/78

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE 'SELDUMP'

PURPOSE
CREATE BACKUP DUMP TAPE OF THE USER PERMANENT FILES OF AN ACCOUNT NUMBER

FUNCTIONAL CATEGORIES: Q4 K3

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,SELDUMP,,AC,VSN1,VSN2,VSN3,VSN4,SN,D,PW.

DESCRIPTION OF PARAMETERS
AC - MUST CORRESPOND TO ACCESS NUMBER ON CHARGE CARD
VSN1 - TAPE DIEBOLD OR SLOT NUMBER (6 CHARACTERS OR LESS)
VSN2 - EXTERNAL STICKER LABEL (SLOT TAPES ONLY)
VSN3/4 - SAME AS VSN1/2 FOR SECOND TAPE
SN - SET NAME (DEFAULT: SYSSET)
D - TAPE DENSITY (DEFAULT : HY -7 TRK)
PW - READ PASSWORD (DEFAULT : PUBLIC PERM FILE SET VALUE)

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 20000B

REMARKS
OUTPUT IS MINI AUDIT LISTING PF NAME, CYCLE, ID FOR EACH FILE AND VSN OF TAPE ON WHICH IT WAS DUMPED.

ERROR MESSAGES
DIFFERENT DUMP TYPE OR MODE RUNNING
ONLY ONE DUMP PROGRAM MAY RUN AT A TIME AND ANOTHER JOB IS RUNNING ONE. WAIT AWHILE AND RE-SUBMIT THE JOB.

EXAMPLE
```
XXXXYYY,MT1.....   OR   XXXXYYY,NT1,....
CHARGE,XXXX,ZZZZZ99999,....        << ACCESS # FOR 1234567890
BEGIN,SELDUMP,,1234567890,CA9999.
"   6/7/8/9   EOI
```

AUTHOR
SHARON E GOOD - DTNSRDC CODE 1892.1

DATE WRITTEN: EARLY 1975

DATE(S) REVISED
03/01/78 - CONVERT TO CCL
09/23/80 - ADD VSN3 AND VSN4
02/24/81 - ADD SN, D, PW - SEG

```
PROCEDURE 'SELLOAD'

PURPOSE
   RESTORE SELECTED ROUTINES FROM A BACKUP DUMPF TAPE

FUNCTIONAL CATEGORIES:  Q4  K4

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN,SELLOAD,,VSN1,VSN2,V,VSN3,VSN4,SN,E,D,PW.

DESCRIPTION OF PARAMETERS
   VSN1     - TAPE DIEBOLD OR SLOT NUMBER (FIRST OR ONLY TAPE)
              (6 CHARACTERS OR LESS)
   VSN2     - EXTERNAL STICKER LABEL (FIRST OR ONLY TAPE)
              (SLOT TAPES ONLY)
   V        - REEL NUMBER IN MULTI-REEL FILE
              (DEFAULT: 1)
   VSN3     - TAPE DIEBOLD OR SLOT NUMBER (SECOND TAPE)
              (6 CHARACTERS OR LESS)
   VSN4     - EXTERNAL STICKER LABEL (SECOND TAPE)
              (SLOT TAPES ONLY)
   SN       - SET NAME (DEFAULTS TO PUBLIC PERM FILE SET)
   E        - EDITION NUMBER OF TAPE
              (DEFAULTS TO 00 -  LEVEL 508)
   D        - TAPE DENSITY (DEFAULT: HY (7-TRACK, 800 BPI))
   PW       - EXTEND PASSWORD
              (DEFAULTS TO PUBLIC PERM FILE SET VALUE)

DEFAULT BEGIN STATEMENT
   NO MEANINGFUL DEFAULT VALUES

MAX FL: 20000B

REMARKS
   NONE

DATA CARDS
   ONE CARD PER FILE, CONTAINING ONE OF THE FOLLOWING:
      PF=PFNAME,ID=XXXX,CY=NN.      TO RESTORE CYCLE NN
      PF=PFNAME,ID=XXXX.            TO RESTORE ALL CYCLES
      ID=XXXX.                      ALL FILES OF USER XXXX

EXAMPLE
   XXXXYYY,MT1  ...     OR    XXXXYYY,NT1,....
   CHARGE,XXXX,ZZZZZ99999.
   BEGIN,SELLOAD,,CA9999.
   '      7/8/9   EOR
   PF=PFN1,ID=XXXX.              ALL CYCLES
   PF=PFN2,ID=XXXX,CY=4.         ONLY CYCLE 4
      ...
   "   6/7/8/9   EOI
```

AUTHORS
SHARON E GOOD - DTNSRDC CODE 1892.1
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: EARLY 1975 (SEG)

DATE(S) REVISED
03/01/78 - DVS - CONVERT TO CCL
02/02/79 - SEG - ADD V, VSN3, VSN4 PARAMETERS
09/24/80 - SEG - ADD SN, E PARAMS, MODIFY FOR LEVEL 508
02/24/81 - SEG - ADD D, PW PARAMETERS

PROCEDURE 'SEND'

PURPOSE
SEND MESSAGES TO AN INTERCOM USER WHO IS NOT LOGGED IN;
LIST MESSAGES

FUNCTIONAL CATEGORIES: Q0

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,SEND,,FCN,<PARAMETERS>.

DESCRIPTION OF PARAMETERS
FCN - ONE OF THE FOLLOWING:
A OR ANY - CHECK FOR ANY MESSAGES
C OR CREATE - CREATE A MAILBOX
E OR EXPLAIN - TYPE EXPLANATION OF PROCEDURE
L OR LIST - LIST CONTENTS OF MAILBOX
S OR SEND - SEND TO ANOTHER MAILBOX
(DEFAULT)
<PARAMETERS> - NOT USED BY FUNCTIONS ANY, CREATE OR EXPLAIN.
OPTIONAL FOR LIST AND SEND (SEE FUNCTION
DESCRIPTIONS BELOW)

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 350008

REMARKS
IN ORDER TO RECEIVE MESSAGES, THE USER MUST HAVE A
PERMANENT FILE NAMED 'SENDFIL', HAVING NO PASSWORDS.

FUNCTIONS
ANY
BEGIN,SEND,,ANY.
THIS FUNCTION CHECKS TO SEE IF THERE ARE ANY MESSAGES.

CREATE
BEGIN,SEND,,CREATE.
CREATE A PERMANENT FILE WITH PFN OF 'SENDFIL'.
THIS IS REQUIRED BEFORE A USER CAN RECEIVE MESSAGES.

LIST
BEGIN,SEND.,LIST,OUTPUT.
LIST ANY MESSAGES ON FILE 'OUTPUT' (PARAMETER MAY BE OMITTED. IF 'OUTPUT' IS NOT CONNECTED, THE USER IS INFORMED THAT THE FILE WAS WRITTEN.
IN LISTING, IF THE FIRST CHARACTER OF A LINE IS 1, SPACE, 0, - OR +, IT IS TREATED AS CARRIAGE CONTROL. ALL OTHER LINES ARE SHIFTED ONE PLACE TO THE RIGHT BEFORE LISTING.
AFTER LISTING, THE USER IS ASKED WHETHER THE MESSAGES SHOULD BE SCRATCHED. THE USER MUST RESPOND Y OR YES (FOR YES) OR ANYTHING ELSE (FOR NO).

SEND
BEGIN.SEND.,SEND,TO,INPUT.
BEGIN.SEND..,TO,INPUT.
SEND MESSAGES TO USER 'TO' (4-CHARACTER USER ID OR U FOR USERSERVIC). IF OMITTED OR INVALID, THE USER IS PROMPTED FOR A 4-CHARACTER USER ID (MUST START WITH A, C, P, R, S) OR USERSERVIC (MAY BE ABBREVIATED U OR USER).
IF THE NEXT PARAMETER (INPUT) IS OMITTED (OR 'INPUT'), THE MESSAGES ARE READ FROM THE TERMINAL. IF THE PARAMETER IS GIVEN AND IS NOT 'INPUT', THE LOCAL FILE OF THAT NAME IS REWOUND AND COPIED THRU END-OF-INFORMATION. A MESSAGE IS TYPED STATING THAT THE FILE IS BEING READ

MESSAGES ARE UP TO 80 CHARACTERS LONG; THE FIRST OF WHICH MAY BE USED FOR CARRIAGE CONTROL.

MESSAGES
GENERAL
INVALID FUNCTION - MUST BE ONE OF
ANY - CREATE - EXPLAIN - LIST - SEND
FIRST PARAMETER OF EXECUTE STATEMENT WAS INVALID

FUNCTION ANY--
SOMEONE IS SENDING YOU A MESSAGE
CANNOT ACCESS YOUR SENDFIL UNTIL SENDER COMPLETES THE MESSAGE

UNEXPECTED RETURN CODE (NNNB) FROM ATTACH
PLEASE TRY AGAIN LATER
IF SAME ERROR OCCURS AGAIN, SEE CCRM. 3-7. AND/OR CALL USER SERVICES

YOU DO NOT HAVE A SENDFIL
TO CREATE ONE. USE BEGIN,SEND.,CREATE.

YOU HAVE NO MESSAGES

YOU HAVE SOME MESSAGES
TO LIST THEM. USE BEGIN.SEND..LIST.OUTPUT.

```
FUNCTION CREATE--
   CT ID=     XXXX PFN=SENDFIL
   CT CY= NNN  00000000 PRUS $0000.00 /DAY
      CREATE WAS SUCCESSFUL

   ERROR DURING CATALOG
   PLEASE TRY AGAIN LATER
      COULD NOT CATALOG

   ERROR TRYING TO GET PF SPACE
   PLEASE TRY AGAIN LATER
      COULD NOT GET PERMANENT FILE SPACE

   YOU ALREADY HAVE A SENDFIL
      CANNOT CREATE A SECOND SENDFIL

FUNCTION LIST--
   EX ID=     XXXX PFN=SENDFIL
   EX CY= NNN  00000000 PRUS  $0000.00 /DAY
      SENDFIL CONTENTS WERE SUCCESSFULLY SCRATCHED

   MESSAGES WRITTEN ON FILE <LFN>
      OUTPUT FILE <LFN> IS NOT CONNECTED AND CONTAINS
      LISTING OF MESSAGES.

   SHALL I SCRATCH THE MESSAGES (Y OR N) --
      ENTER Y OR YES TO CLEAR THE MESSAGES.
      ENTER ANYTHING ELSE TO RETAIN THEM.

   SORRY - SOMEONE IS SENDING YOU A MESSAGE
   PLEASE TRY AGAIN LATER
      CANNOT LIST MESSAGES WHILE SOMEONE IS SENDING YOU ONE

   UNEXPECTED RETURN CODE (NNNB) FROM ATTACH
   PLEASE TRY AGAIN LATER
      ERROR WHILE ATTACHING YOUR SENDFIL.  IF IT HAPPENS
      AGAIN, SEE CCRM, 3-7, AND/OR CALL USER SERVICES.

FUNCTION SEND--
   CALL AGAIN
      RESPONSE TO USER ENTRY OF 'QUIT'

   ENTER YOUR MESSAGES - END WITH END
      BEGIN ENTERING UP-TO-80-CHARACTER MESSAGES.  END WITH
      SEPARATE LINE CONTAINING  END  AND NO OTHER NON-BLANK
      CHARACTERS.  THERE IS NO MORE PROMPTING UNTIL END IS
      ENCOUNTERED.

   FROM: YOUR-USER-ID
   TO  : TO-USER-ID
      SENDFIL WAS SUCCESSFULLY ATTACHED
```

INVALID. MUST BE USERSERVIC OR 4 CHARACTERS STARTING WITH A, C, P, R OR S.
PLEASE RE-ENTER IT (OR 'QUIT' TO STOP)-
   ENTER ONE OF THE FOLLOWING:
      4-CHARACTER USER-ID (START WITH A/C/P/R/S)
      USERSERVIC (OR U OR USER)
      QUIT

READING FROM FILE XXXXXXX
   MESSAGES ARE BEING READ FROM INDICATED FILE

SORRY - I COULDN'T SEND YOUR MESSAGES
PLEASE TRY AGAIN LATER
   EXTEND OF SENDFIL FAILED

SORRY, XXXX IN NOT ACCESSIBLE
   SPECIFIED USER'S SENDFIL IS BEING USED BY SOMEONE ELSE

SORRY, XXXX CANNOT RECEIVE MESSAGES
   SPECIFIED USER DOES NOT HAVE A FILE CALLED SENDFIL

TO WHOM (4-CHARACTER USER- ID -OR- USERSERVIC:-
   USER-ID ON EXECUTE CARD WAS OMITTED OR INVALID. ENTER IT NOW.

... TRUNCATED
   ONLY FIRST 80 CHARACTERS READ. LISTED CHARACTERS IGNORED.

YOUR MESSAGE HAS BEEN SENT
   THE SENDFIL WAS SUCCESSFULLY EXTENDED

AUTHOR
   DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 05/20/77

DATE(S) REVISED
   03/01/78 - CONVERT TO CCL

PROCEDURE 'SORT'

PURPOSE
SORT (SORTMRG) UP TO 5 'DISPLAY' FIELDS USING 'COBOL6' COLLATING SEQUENCE ('FILE' CARDS REQUIRED)

FUNCTIONAL CATEGORIES: M1

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
```
BEGIN.SORT,,IN.OUT.OUTPUT,NF,S1,N1,AD1,S2.N2.AD2.S3,N3,AD3,
  S4.N4.AD4.S5,N5.AD5.
```

DESCRIPTION OF PARAMETERS

IN	- INPUT FILE TO BE SORTED
OUT	- OUTPUT SORTED FILE
OUTPUT	- LISTABLE OUTPUT (SORT DIRECTIVES)
NF	- NUMBER OF FIELDS TO BE SORTED
S1	- STARTING POSITION OF FIRST SORT FIELD
N1	- NUMBER OF POSITIONS IN FIRST SORT FIELD
AD1	- A - ASCENDING SORT D - DESCENDING SORT
S2.N2.AD2	- SAME FOR SECOND SORT FIELD
...	
S5.N5.AD5	- SAME FOR FIFTH SORT FIELD

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 600008 (USUALLY)

REMARKS
THE USER MUST SUPPLY 'FILE' CARDS FOR THE INPUT AND OUTPUT FILES (IN AND OUT) BEFORE USING THIS PROCEDURE. THEY MUST EACH HAVE AT LEAST THE BT, RT AND MRL PARAMETERS.

FOR BT=C,RT=Z FILES, USE PROCEDURE 'SORTCZ'.

ERROR MESSAGES
TOO MANY FIELDS (MAX 5)
USER SPECIFIED AN NF GREATER THAN 5

EXAMPLE
SORT A CARD-IMAGE FILE ON COLUMNS 1-5 (ASCENDING) AND 41-50 (DESCENDING):

```
FILE.INFILE.BT=C.RT=Z.MRL=90.
FILE.OUTFILE.BT=C.RT=Z.MRL=90.
BEGIN.SORT..INFILE.OUTFILE..2.1.5.A.41.10.D.
```

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 11/03/77

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE 'SORTCZ'

PURPOSE
SORT (SORTMRG) UP TO 5 'DISPLAY' FIELDS USING 'COBOL6' COLLATING SEQUENCE ('FILE' CARDS NOT REQUIRED)

FUNCTIONAL CATEGORIES: M1

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
```
BEGIN,SORTCZ,,IN,OUT,OUTPUT,MRL,NF,S1,N1,AD1,S2,N2,AD2,
  S3,N3,AD3,S4,N4,AD4,S5,N5,AD5.
```

DESCRIPTION OF PARAMETERS

IN	- INPUT FILE TO BE SORTED
OUT	- OUTPUT SORTED FILE
OUTPUT	- LISTABLE OUTPUT (SORT DIRECTIVES)
MRL	- MAXIMUM RECORD LENGTH (ROUNDED UP TO MULTIPLE OF 10)
NF	- NUMBER OF FIELDS TO BE SORTED
S1	- STARTING POSITION OF FIRST SORT FIELD
N1	- NUMBER OF POSITIONS IN FIRST SORT FIELD
AD1	- A - ASCENDING SORT D - DESCENDING SORT
S2,N2,AD2	- SAME FOR SECOND SORT FIELD
...	
S5,N5,AD5	- SAME FOR FIFTH SORT FIELD

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 60000B (USUALLY)

REMARKS
THIS PROCEDURE PROVIDES 'FILE' CARDS FOR BOTH 'IN' AND 'OUT'. EACH DEFINES BT=C,RT=Z. MRL IS USER-SPECIFIED (DEFAULT: MRL=90)

TO SUPPLY 'FILE' CARDS, USE PROCEDURE 'SORT'.

ERROR MESSAGES
TOO MANY FIELDS (MAX 5)
USER SPECIFIED AN NF GREATER THAN 5

EXAMPLE
SORT A CARD-IMAGE FILE ON COLUMNS 1-5 (ASCENDING) AND 41-50 (DESCENDING):
```
BEGIN,SORTCZ,,INFILE,OUTFILE,,90,2,1,5,A,41,10,D.
```

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 02/07/80

DATE(S) REVISED

PROCEDURE 'S2K260'

PURPOSE
ATTACH FILES FOR S2000 (VERSION 2.60) NATURAL LANGUAGE, FORTRAN, OR COBOL PROCEDURAL LANGUAGE INTERFACE.

FUNCTIONAL CATEGORIES: Q3 L0

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE.

USAGE
BEGIN,S2K260,,LANG.

DESCRIPTION OF PARAMETER

LANG	- COB	FOR COBOL LANGUAGE INTERFACE ROUTINE
	- FOR	FOR FORTRAN LANGUAGE INTERFACE ROUTINE
	- OMITTED	NATURAL LANGUAGE

DEFAULT BEGIN STATEMENT
BEGIN,S2K260. USE NATURAL LANGUAGE ONLY

MAX FL: 150008

REMARKS
THIS PROCEDURE ATTACHES THE FILES FOR SYSTEM 2000 VERSION 2.60. DO NOT USE BEFORE READING THE NEWSLETTER FROM MRI REGARDING THE FEATURES AND DIFFERENCES IN THIS VERSION OF SYSTEM 2000 (APRIL 1977).

EXAMPLES

FOR NATURAL LANGUAGE:	BEGIN,S2K260.	
	S2K260,....	EXECUTE S2K
FOR COBOL INTERFACE:	BEGIN,S2K260,,COB.	
	PLICOB,....	PRECOMPILER
	COPYR,PLILGO,LGO.2.	
	COBOL,I=TAPE3,....	
	FTN,I=TAPE3.	REQUIRED
	COPYF,PLILGO,LGO.	
	LGO.	EXECUTE
FOR FORTRAN INTERFACE:	BEGIN,S2K260,,FOR.	
	PLIFOR,....	PRECOMPILER
	COPYR,PLIGO,LGO,2.	
	FTN,I=TAPE3,....	
	COPYF,PLILGO,LGO.	
	LGO.	EXECUTE

AUTHOR
SHARON E GOOD - DTNSRDC CODE 1892.1
BRUCE D BLACK - DTNSRDC CODE 1892.1 (CDC)

DATE WRITTEN: 06/20/77

DATE(S) REVISED
03/01/78 - CONVERT TO CCL
07/10/80 - CHANGE SETNAME TO USRVLB2
08/05/80 - CHANGE 'PLILGO260' TO 'S2K260LGO'

PROCEDURE 'TIDBITS'

PURPOSE
LIST FILE OF TIDBITS (HINTS ON IMPROVED COMPUTER USAGE)

FUNCTIONAL CATEGORIES: 01

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,TIDBITS,,OUTPUT,LEFT.

DESCRIPTION OF PARAMETERS
OUTPUT - LISTABLE OUTPUT
LEFT - OMITTED OR 'LEFT' - PRINT ON LEFT SIDE OF PAGE
ANYTHING ELSE - PRNT CENTERED ON WIDE PAPER

DEFAULT BEGIN STATEMENT
BEGIN,TIDBITS,,OUTPUT,LEFT.

MAX FL: 32000B

REMARKS
NONE

MESSAGES
<OUTPUT> HAS TIDBITS
INDICATES SUCCESSFUL COMPLETION (LEFT-JUSTIFIED PRINTOUT)

<OUTPUT> HAS TIDBITS (CENTERED)
INDICATES SUCCESSFUL COMPLETION (CENTERED PRINTOUT)

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 08/01/77

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE 'TRANPAK'

PURPOSE
COPY CONTENTS FROM ONE DEVICE SET TO ANOTHER FOR BACKUP

FUNCTIONAL CATEGORIES: K3

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,TRANPAK,,VSNF,FS,RDF,CNF,MDF,VSNT,TS,TKF,TKT.

DESCRIPTION OF PARAMETERS

VSNF	- VSN OF PACK COPIED FROM
FS	- SETNAME COPIED FROM
RDF	- USER READ PASSWORD INITIALIZED ON DUM FILE
CNF	- USER CONTROL PASSWORD INITIALIZED ON DUM FILE
MDF	- USER MODIFY PASSWORD INITIALIZED ON DUM FILE
VSNT	- VSN OF PACK TO COPY TO
TS	- SETNAME TO COPY TO
TKF	- DEVICE SET PASSWORD COPIED FROM
TKT	- DEVICE SET PASSWORD COPIED TO

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

IF NO TURNKEYS, MAY OMIT THE LAST 2 PARAMETERS.

MAX FL:

REMARKS
PERFORMS BOTH PACK MOUNTS IN PROCEDURE.
OUTPUT IS A LIST OF FILES MOVED WITH ID AND CYCLE OF EACH

EXAMPLE
BEGIN,TRANPAK,,DVS299,SG1PK,RDPW,CNPW,MDPW,DVS476,SG2PK.

AUTHOR
SHARON E GOOD - DTNSRDC CODE 1892.1

DATE WRITTEN: 07/02/76

DATE(S) REVISED
03/01/78 - CONVERT TO CCL
01/18/79 - ADD DEVICE SET PASSWORDS

PROCEDURE 'UPDADD'

PURPOSE
ADD ONE DECK TO AN UPDATE LIBRARY

FUNCTIONAL CATEGORIES: K3 Q7

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,UPDADD,,LIB,ID,PROG,AFTER,LFN,AC,PW1,PW2,C,S.

DESCRIPTION OF PARAMETERS

LIB	- FIRST PART OF PFN (FULL PFN IS LIB_PL)
ID	- ID UNDER WHICH IT IS CATALOGED
PROG	- DECK NAME OF ROUTINE TO BE ADDED ('*DECK PROG' IS GENERATED AUTOMATICALLY)
AFTER	- DECK NAME IT IS TO FOLLOW (IF OMITTED, NEW DECK GOES AT END OF LIBRARY)
LFN	- LFN OF FILE CONTAINING DECK TO BE ADDED (NO *DECK CARD)
AC	- JOB ORDER NUMBER FOR CATALOG (MAY BE OMITTED)
PW1,PW2	- PASSWORDS
C	- COMPILE FILE (0 FOR NONE)
S	- SOURCE FILE (0 FOR NONE)

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 42000B

REMARKS
THE LOWEST CYCLE OF LIB_PL IS PURGED, IF POSSIBLE. AT LEAST 2 CYCLES ARE ALWAYS RETAINED.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 03/10/76

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE 'UPDDELE'

PURPOSE
DELETE ONE DECK FROM AN UPDATE LIBRARY

FUNCTIONAL CATEGORIES: K3 Q7

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN.UPDDELE,,LIB,ID,PROG,AC,PW1,PW2,S.

DESCRIPTION OF PARAMETERS
LIB - FIRST PART OF PFN
(FULL PFN IS LIB_PL)
ID - ID UNDER WHICH IT IS CATALOGED
PROG - DECK NAME OF ROUTINE TO BE DELETED
('*DECK PROG' IS GENERATED AUTOMATICALLY)
AC - JOB ORDER NUMBER FOR CATALOG
(MAY BE OMITTED)
PW1,PW2 - PASSWORDS
S - SOURCE FILE (0 FOR NONE)

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 42000B

REMARKS
NONE

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 03/10/76

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE 'UPDDOC'

PURPOSE
LIST DOCUMENTATION FOR PROCEDURES UPDADD, UPDDELE, UPDDOC, UPDGET, UPDLIST, UPDREPL

FUNCTIONAL CATEGORIES: 01

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,UPDDOC.,OUTPUT,LEFT.

DESCRIPTION OF PARAMETERS
OUTPUT - LISTABLE OUTPUT
LEFT - OMITTED - PRINT LEFT-JUSTIFIED ON PAGE
NON-BLANK - PRINT CENTERED ON WIDE PAGE

DEFAULT BEGIN STATEMENT
BEGIN,UPDDOC.,OUTPUT.

MAX FL: 25000B

REMARKS
A BANNER PAGE PRECEDES THE LIST AND CONTAINS THE WORD 'UPDDOC'. A BANNER PAGE WITH THE WORD 'END' FOLLOWS THE LIST.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 02/10/77

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE 'UPDGET'

PURPOSE
EXTRACT ONE DECK FROM AN UPDATE LIBRARY (UPDATE,C) AND,
OPTIONALLY, ADD EDITOR SEQUENCING

FUNCTIONAL CATEGORIES: K3 Q7

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,UPDGET,,LIB,ID,DECK,COMPILE,C72,E,START,INCR,PW1,PW2.

DESCRIPTION OF PARAMETERS
LIB - 1-7 CHARACTERS: FIRST PART OF PFN
(FULL PFN IS LIB_PL)
ID - ID UNDER WHICH IT IS CATALOGED
DECK - DECK NAME OF ROUTINE TO BE EXTRACTED
COMPILE - COMPILE FILE (UPDATE,C=COMPILE)
(WILL CONTAIN EXTRACTED DECK, UNLESS C72 USED)
C72 - IF SPECIFIED, WILL CONTAIN 72-COLUMN COPY OF THE
COMPILE FILE. THE COMPILE FILE IS NOT AVAILABLE
TO THE USER.)
E - OMITTED - DO NOT ADD EDITOR SEQUENCING
ANY WORD STARTING WITH 'E' - ADD EDITOR SEQUENCING
(THIS PARAMETER IS EFFECTIVE ONLY IF PARAMETER
'C72' IS SPECIFIED)
START - FIRST EDITOR SEQUENCE NUMBER (IF EDITOR SEQUENCING
REQUESTED) (DEFAULT: 20)
INCR - INCREMENT FOR EDITOR SEQUENCING (DEFAULT: 10)
NOTE: DEFAULT START AND INCR WILL GIVE 10 TIMES
THE COMPILE FILE CARD NUMBERS IF THE DECK HAS
NO MODIFYING IDENTS.
PW1,PW2 - PASSWORDS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 42000B

REMARKS
NONE

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 03/10/76

DATE(S) REVISED
07/13/76 - ADD EDITOR SEQUENCING OPTION
02/04/77 - ADD PASSWORDS
03/01/78 - CONVERT TO CCL

PROCEDURE 'UPDGETS'

PURPOSE
EXTRACT ONE DECK FROM AN UPDATE LIBRARY (UPDATE,S) AND, OPTIONALLY, ADD EDITOR SEQUENCING

FUNCTIONAL CATEGORIES: K3 Q7

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,UPDGETS,,LIB,ID,DECK,SOURCE,C72,E,START,INCR,PW1,PW2.

DESCRIPTION OF PARAMETERS

LIB	- 1-7 CHARACTERS: FIRST PART OF PFN (FULL PFN IS LIB_PL)
ID	- ID UNDER WHICH IT IS CATALOGED
DECK	- DECK NAME OF ROUTINE TO BE EXTRACTED
SOURCE	- SOURCE FILE (UPDATE,S=SOURCE) (COMDECKS, IF ANY, INCLUDED) (WILL CONTAIN EXTRACTED DECK, UNLESS C72 USED)
C72	- IF SPECIFIED, WILL CONTAIN 72-COLUMN COPY OF THE COMPILE FILE. THE COMPILE FILE IS NOT AVAILABLE TO THE USER.)
E	- OMITTED - DO NOT ADD EDITOR SEQUENCING ANY WORD STARTING WITH 'E' - ADD EDITOR SEQUENCING (THIS PARAMETER IS EFFECTIVE ONLY IF PARAMETER 'C72' IS SPECIFIED)
START	- FIRST EDITOR SEQUENCE NUMBER (IF EDITOR SEQUENCING REQUESTED) (DEFAULT: 20)
INCR	- INCREMENT FOR EDITOR SEQUENCING (DEFAULT: 10) NOTE: DEFAULT START AND INCR WILL GIVE 10 TIMES THE COMPILE FILE CARD NUMBERS IF THE DECK HAS NO MODIFYING IDENTS.
PW1,PW2	- PASSWORDS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 42000B

REMARKS
NONE

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 05/13/77

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE 'UPDGETT'

PURPOSE
EXTRACT ONE DECK FROM AN UPDATE LIBRARY (UPDATE,T) AND,
OPTIONALLY, ADD EDITOR SEQUENCING

FUNCTIONAL CATEGORIES: K3 Q7

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,UPDGETT,,LIB,ID,DECK,SOURCE,C72,E,START,INCR,PW1,PW2.

DESCRIPTION OF PARAMETERS
LIB - 1-7 CHARACTERS: FIRST PART OF PFN
(FULL PFN IS LIB_PL)
ID - ID UNDER WHICH IT IS CATALOGED
DECK - DECK NAME OF ROUTINE TO BE EXTRACTED
SOURCE - SOURCE FILE (UPDATE,T=SOURCE)
(NO COMDECKS INCLUDED)
(WILL CONTAIN EXTRACTED DECK, UNLESS C72 USED)
C72 - IF SPECIFIED, WILL CONTAIN 72-COLUMN COPY OF THE
COMPILE FILE. THE COMPILE FILE IS NOT AVAILABLE
TO THE USER.)
E - OMITTED - DO NOT ADD EDITOR SEQUENCING
ANY WORD STARTING WITH 'E' - ADD EDITOR SEQUENCING
(THIS PARAMETER IS EFFECTIVE ONLY IF PARAMETER
'C72' IS SPECIFIED)
START - FIRST EDITOR SEQUENCE NUMBER (IF EDITOR SEQUENCING
REQUESTED) (DEFAULT: 20)
INCR - INCREMENT FOR EDITOR SEQUENCING (DEFAULT: 10)
NOTE: DEFAULT START AND INCR WILL GIVE 10 TIMES
THE COMPILE FILE CARD NUMBERS IF THE DECK HAS
NO MODIFYING IDENTS.
PW1,PW2 - PASSWORDS

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 42000B

REMARKS
NONE

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 05/13/77

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE 'UPDLIST'

PURPOSE
LIST DECK/COMDECK NAMES IN UPDATE LIBRARY WITH COUNT OF RECORDS IN EACH DECK/COMDECK

FUNCTIONAL CATEGORIES: 01 03

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,UPDLIST,,LIB,ID,OUTPUT.

DESCRIPTION OF PARAMETERS
LIB - FIRST PART PF PFN
(FULL PFN IS LIB_PL)
ID - ID UNDER WHICH IT IS CATALOGED
OUTPUT - LISTABLE OUTPUT

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 42000B

REMARKS
UPDATE IS RUN TO GET A SOURCE FILE. THEN PROGRAM 'DECK' ON UTILITY IS RUN AGAINST THE SOURCE FILE. THEREFORE, ANY IDENTS WILL NOT BE LISTED, AS THEY HAVE ALREADY BEEN PROCESSED BY UPDATE.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 04/12/76

DATE(S) REVISED
04/23/76
05/04/76
05/25/76
03/01/78 - CONVERT TO CCL

PROCEDURE 'UPDREPL'

PURPOSE
REPLACE ONE DECK IN AN UPDATE LIBRARY

FUNCTIONAL CATEGORIES: K3 Q7

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,UPDREPL,,LIB,ID,PROG,AFTER,LFN,AC,PW1,PW2,C,S.

DESCRIPTION OF PARAMETERS

LIB	- FIRST PART OF PFN (FULL PFN IS LIB_PL)
ID	- ID UNDER WHICH IT IS CATALOGED
PROG	- DECK NAME OF ROUTINE TO BE REPLACED ('*DECK PROG' IS GENERATED AUTOMATICALLY)
AFTER	- DECK NAME IT IS TO FOLLOW (IF OMITTED, NEW DECK GOES AT END OF LIBRARY)
LFN	- LFN OF FILE CONTAINING DECK TO BE REPLACED (NO *DECK CARD)
AC	- JOB ORDER NUMBER FOR CATALOG (MAY BE OMITTED)
PW1,PW2	- PASSWORDS
C	- COMPILE FILE (0 FOR NONE)
S	- SOURCE FILE (0 FOR NONE)

DEFAULT BEGIN STATEMENT
NO MEANINGFUL DEFAULT VALUES

MAX FL: 42000B

REMARKS
THE LOWEST CYCLE OF LIB_PL IS PURGED. IF POSSIBLE. AT LEAST 2 CYCLES ARE ALWAYS RETAINED.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 03/11/76

DATE(S) REVISED
05/25/76 - DOUBLE UPDATE REPLACED BY SINGLE UPDATE
03/01/78 - CONVERT TO CCL

PROCEDURE 'UTILITY'

PURPOSE
   EXECUTE A PROGRAM ON EDITLIB USER LIBRARY 'UTILITY'

FUNCTIONAL CATEGORIES: L0 Q3

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN,UTILITY,,PROG,PARAMS.

DESCRIPTION OF PARAMETERS
   PROG   - PROGRAM TO BE EXECUTED
   PARAMS   - UP TO 19 PARAMETERS FOR 'PROG'

DEFAULT BEGIN STATEMENT
   NO MEANINGFUL DEFAULT VALUES

MAX FL: DEPENDS ON PROGRAM BEING EXECUTED

REMARKS
   NONE

AUTHOR
   DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: EARLY 1975

DATE(S) REVISED
   03/01/78 - CONVERT TO CCL

PROCEDURE 'VENUS'

PURPOSE
ATTACH AND EXECUTE ONE OF THE VENUS RETRIEVAL PROGRAMS

FUNCTIONAL CATEGORIES: SO

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN.VENUS..WHICH,INPUT,OUTPUT,SUBSET.

DESCRIPTION OF PARAMETERS
WHICH - VENUS PROGRAM DESIRED
OMITTED - VENUS (SINGLE FILE VERSION)
MF - VENUS (MULTIPLE FILE VERSION)
PL - VENPL (PLOTTING LANGUAGE PROCESSOR)
RP - VENRP (REPORT GENERATOR)
INPUT - COMMAND INPUT FILE
(IF TERMINAL, USER MUST 'CONNECT,INPUT')
OUTPUT - LISTABLE OUTPUT
(IF TERMINAL, USER MUST 'CONNECT,OUTPUT')
SUBSET - OUTPUT FILE FOR THE SUBSET COMMAND

DEFAULT BEGIN STATEMENT
BEGIN.VENUS..,INPUT,OUTPUT,SUBSET.

MAX FL: 61000B (MF MAY NEED MORE)

REMARKS
FOR VENUS PROBLEMS, CONTACT:
RAY SIMANOWITH
DTNSRDC CODE 2731
(301) 267-3240 (ANNAPOLIS)

ERROR MESSAGES
FIRST PARAMETER (<WHICH>) INVALID
MUST BE ONE OF MF, PL, RP OR OMITTED
SELF-EXPLANATORY

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN. 09/20/77

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

PROCEDURE 'WHATLIB'

PURPOSE
LIST LIBRARIES SPECIFIED IN LAST 'LIBRARY' COMMAND

FUNCTIONAL CATEGORIES: Q0

LOCATION OF PROCEDURE
SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
BEGIN,WHATLIB,,OUTPUT.

DESCRIPTION OF PARAMETER
OUTPUT - LISTABLE OUTPUT
(TO PRINT AT INTERACTIVE TERMINAL, MUST BE CONNECTED.)

DEFAULT BEGIN STATEMENT
BEGIN,WHATLIB.,OUTPUT.

MAX FL: 22000B

REMARKS
OF LIMITED USE IN BATCH.

AUTHOR
DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: MID-1975

DATE(S) REVISED
03/01/78 - CONVERT TO CCL

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